



# BALOO'S BUGLE



Volume 16, Number 7

"Make no small plans. They have no magic to stir men's blood and probably will not themselves be realized." D. Burnham

February 2010 Cub Scout Roundtable

March 2010 Cub Scout Theme

## TAKE FLIGHT

Tiger Cub Activities

Webelos Athlete and Engineer

### FOCUS

*Cub Scout Roundtable Leaders' Guide*

How many things can you name that fly? This month Cub Scouts will make their own flying machines and learn about the Wright Brothers and their achievements. A pack might invite a military or civilian pilot to come and talk about all that is involved in getting a plane up in the air. This is a great time for a pack to hold a kite derby or a paper airplane derby. A den can visit an airport, a hobby shop, or a science museum. Encourage boys to start working on the Science belt loop and pin.

### CORE VALUES

*Cub Scout Roundtable Leaders' Guide*

Some of the purposes of Cub Scouting developed through this month's theme are:

- ✓ **Sportsmanship and Fitness.** Boys will demonstrate good sportsmanship while participating in the pack kite derby or paper airplane derby.
- ✓ **Fun and Adventure.** Cub Scouts will explore the exciting world of flight.
- ✓ **Personal Achievement.** Boys will feel a sense of pride as they watch their creations take to the air.

The core value highlighted this month is:

- ✓ **Courage.** Cub Scouts will learn of the courage it takes to follow one's dreams.

Can you think of others??? Hint – look in your **Cub Scout Program Helps.** It lists different ones!! All the items on both lists are applicable!! You could probably list all twelve if you thought about it!!



### COMMISSIONER'S CORNER

**Cub Scouts 2010** - Big article about CS 2010 in Pack Admin helps this month. Bob Scott, the Innovation Coordinator at National who is leading this Program change, was at our Pow Wow last week. A great guy and full of enthusiasm (despite us being the third council he was visiting that week and me having him away from home on a Saturday. This will truly be a great leap forward for Cub Scouts. He said one of his favorite sayings is "Jet planes have no rear view mirrors." It means if you are truly going to go forward at high speed, there is no need to look back. Check out the CS 2010 article here and then go to the website. And yes, my fourth Pow Wow is now over but I still have no time.

**Bill Smith writes that he is doing well.** Be sure to read his article on Den Leaders in Training Topics

*Now that Pow Wow is over, I will be putting together a DVD of this year's books. DVDs hold 4.7 gig versus 700 meg for CDs. They should be in the mail before the next issue of Baloo. If you sent me a Pow Wow Book and do not receive a DVD, drop me a line.*

#### Character Connections Ideas



**Courage.** Cub Scouts can find courage as they venture off into the wild blue yonder getting ready for their first flight (or anything else for the first time). It takes courage to do something for the first time and to forge new paths looking for knowledge and friends.

- \* **Know.** Memorize the courage steps: Be brave, Be calm, Be clear, and Be careful. Tell why each courage step is important. How will memorizing the courage steps help you to be ready?
- \* **Commit.** Tell why it might be difficult to follow the courage steps in an emergency situation. Think of other times you can use the courage steps. (Standing up to a bully is one example.)
- \* **Practice.** Act out one of the requirements using these courage steps: Be brave, Be calm, Be clear, and Be careful.

**Months with similar themes to  
Take Flight**  
*Dave D. in Illinois*

Month	Year	Theme
Planes		
May	1943	Aircraft
April	1946	Air Month
May	1950	Air Fun
June	1954	Air Adventures
June	1955	Wheels Wings and Rudders
April	1961	Air Adventure
July	1961	Harbors, Stations, Airports
May	1989	Wheels, Wings & Rudders
August	1990	Harbors, Stations & Airports
November	1994	Harbors, Stations & Airports
Transportation		
July	1941	Things That Go
April	1945	Transportation
August	1947	Things That Go Month
July	1951	Things That Go
January	1953	Transportation
June	1963	Things that Go
January	1966	Transportation
June	1969	Things that Go
November	1972	Things That Go
January	1974	Transportation
May	1975	Things that Go
July	1980	Things that Go
March	1992	Things that Go

**THOUGHTFUL ITEMS FOR  
SCOUTERS**

*Thanks to Scouter Jim from Bountiful, Utah, who prepares this section of Baloo for us each month. You can reach him at [bobwhitejonz@juno.com](mailto:bobwhitejonz@juno.com) or through the link to write Baloo on [www.usscouts.org](http://www.usscouts.org). CD*

**Roundtable Prayer**

*CS Roundtable Planning Guide*

“Thank you, God, for the dreams of the people who gave us the possibilities of flight. Thank you for the birds that inspire them as examples of how to do it. And thank you for the courage of those who kept trying until they succeeded. **AMEN**”

**High Flight**

Oh! I have slipped the surly bonds of Earth  
And danced the skies on laughter-silvered wings;  
Sunward I've climbed, and joined the tumbling mirth  
Of sun-split clouds, — and done a hundred things  
You have not dreamed of - wheeled and soared and swung  
High in the sunlit silence. Hov'ring there,  
I've chased the shouting wind along, and flung  
My eager craft through footless halls of air. . . .

Up, up the long, delirious burning blue  
I've topped the wind-swept heights with easy grace  
Where never lark, or ever eagle flew —  
And, while with silent, lifting mind I've trod  
The high untrespassed sanctity of space,  
Put out my hand, and touched the face of God.

**John Gillespie Magee, Jr**

*See note on John Gillespie Magee, Jr at the end of this section.*

**It All began with Model Airplanes**

*Scouter Jim, Bountiful UT*

At sixteen-years-old, Dick Rutan earned both his driver's and pilot's licenses. Dick joined the Air Force Aviation Cadet Program at the age of 19 and would become a lieutenant in the United States Air Force and flew missions over Southeast Asia during the Vietnam War. In September 1968, his aircraft was hit by enemy fire and he was forced to eject and evaded capture and was rescued by American forces. He received the Silver Star, five Distinguished Flying Crosses, 16 Air Medals, and a Purple Heart.



Younger brother Burt, at the age of eight began designing and building model aircraft. His first solo flight was also when he was 16-years-old. He earned a degree in aeronautical engineering. From California Polytechnic State University, third in his class. Like his older brother, he went to work for the United State Air Force at Edwards Air base as a test project engineer. Years later he would team with his brother to form Scaled Composites LLC designing planes.

In 1981, the older brother asked his business partner and younger brother to design a plane that could beat the World Distance record of 12,532 miles set by a B-52 crew in 1962. They sketched out a rough design onto a lunch napkin at a lunch table. Not only would they break the World Distance Record, they would smash it and do something no one had ever done before, circumnavigate the World without refueling. Burt designed the Voyager and Dick would fly it with another pilot, Jeana Yeager. By the time voyager made its first flight on June 22, 1984, more than 18 months had passed and 22,000 hours had been spent working on the aircraft. Another year and a half later at 8:01 a.m., on December 13, 1986, the plane took off from Edwards Air

Base from one on the longest runways airstrips in the world with its 17 fuel tanks full of nearly four and a half tons of fuel. The non-stop flight took 216 hours to complete and after a detour around Typhoon Marge, nearly every drop of fuel on the plane. The new record was now set at 24,986 miles. Not only was it a flight distance record, Rutan and Yeager became the first aviators to circumnavigate the globe non-stop. President Ronald Reagan awarded the Rutan Brothers and Yeager the Presidential Citizen's Medal of Honor.

While not as famous as Charles Lindberg's solo crossing of the Atlantic, in May 1927, the Voyager shares the same final resting place as the historic Spirit of St Louis. The Voyager is now on display in the Smithsonian National Air and Space Museum in Washington D C.

Dick and Burt's mother is quoted as having said, "It all began with model airplanes." Who knows if there are yet records untested and heights yet to be obtained, that some eight-year-old boy, with a glint in his eye and a dream will someday test and reach. Let dreams "TAKE FLIGHT!"

Adventure is the essence of life.

*Dick Rutan, Voyager Pilot, (First Pilot to circumnavigate the earth without refueling.)*

"We need affordable space travel to inspire our youth, to let them know that they can experience their dreams, can set significant goals and be in a position to lead all of us to future progress in exploration, discovery and fun.." [Burt Rutan](#)

#### Quotations

*Quotations contain the wisdom of the ages, and are a great source of inspiration for Cubmaster's minutes, material for an advancement ceremony or an insightful addition to a Pack Meeting program cover*

I fly because it releases my mind from the tyranny of petty things. [Antoine de Saint-Exupery](#)

The air up there in the clouds is very pure and fine, bracing and delicious. And why shouldn't it be? - it is the same the angels breathe. [Mark Twain, "Roughing It"](#)

You haven't seen a tree until you've seen its shadow from the sky. [Amelia Earhart](#)

How strange is this combination of proximity and separation. That ground - seconds away - thousands of miles away. [Charles A. Lindbergh](#)

Flight is the only truly new sensation than men have achieved in modern history. [James Dickey](#)

O! for a horse with wings!  
[William Shakespeare, Cymbeline](#)

More than anything else the sensation is one of perfect peace mingled with an excitement that strains every nerve to the utmost, if you can conceive of such a combination.

[Wilbur Wright](#)

The modern airplane creates a new geographical dimension. A navigable ocean of air blankets the whole surface of the globe. There are no distant places any longer: the world is small and the world is one. [Wendell Willkie](#)

Once you have learned to fly your plane, it is far less fatiguing to fly than it is to drive a car. You don't have to watch every second for cats, dogs, children, lights, road signs, ladies with baby carriages and citizens who drive out in the middle of the block against the lights.... Nobody who has not been up in the sky on a glorious morning can possibly imagine the way a pilot feels in free heaven.

[William T. Piper](#)

Flying without feathers is not easy; my wings have no feathers. [Titus Maccius Plautus](#)

Within all of us is a varying amount of space lint and star dust, the residue from our creation. Most are too busy to notice it, and it is stronger in some than others. It is strongest in those of us who fly and is responsible for an unconscious, subtle desire to slip into some wings and try for the elusive boundaries of our origin.

[K.O. Eckland, "Footprints On Clouds"](#)

Angels can fly because they carry no burdens.

*Quoted in The Angels' Little Instruction Book by Eileen Elias Freeman, 1994*

Pilots are a rare kind of human. They leave the ordinary surface of the world, to purify their soul in the sky, and they come down to earth, only after receiving the communion of the infinite. [Jose Maria Velasco Ibarra](#)

The desire to reach for the sky runs deep in our human psyche. [Cesar Pelli](#)

Why fly? Simple. I'm not happy unless there's some room between me and the ground. [Richard Bach](#)

When once you have tasted flight, you will forever walk the earth with your eyes turned skyward, for there you have been, and there you will always long to return.

[Leonardo Da Vinci](#)

The Wright Brothers created the single greatest cultural force since the invention of writing. The airplane became the first World Wide Web, bringing people, languages, ideas, and values together. [Bill Gates](#)

I pick the prettiest part of the sky and I melt into the wing and then into the air, till I'm just soul on a sunbeam.

[Richard Bach](#)

I think it is a pity to lose the romantic side of flying and simply to accept it as a common means of transport. [Amy Johnson](#)

My soul is in the sky.

[William Shakespeare, A Midsummer Night's Dream](#)

The reason angels can fly is because they take themselves lightly. [G.K. Chesterton, "Orthodoxy"](#)

Aerodynamically the bumblebee shouldn't be able to fly, but the bumblebee doesn't know that so it goes on flying anyway. [Mary Kay Ash](#)

Spread your wings and let the fairy in you fly! [Anonymous](#)

If happy little bluebirds fly beyond the rainbow, why oh why can't I? [E.Y. Harburg](#)

The desire to fly is an idea handed down to us by our ancestors who, in their grueling travels across trackless lands in prehistoric times, looked enviously on the birds soaring freely through space, at full speed, above all obstacles, on the infinite highway of the air. [Wilbur Wright](#)

**Kite Days***Grand Teton Council*

A kite, a sky, and a good firm breeze,  
 And acres of ground away from trees,  
 And one hundred yards of clean, strong string –  
 O Boy, O Boy! I call that Spring!

(by Mark Sawyer)

**Time to Lead and a Time to Follow***Scouter Jim, Bountiful Utah*

In Scouting there are times for some of us to lead and many of us to follow. In our District we give a thong to the newcomers to Roundtable with two beads on it, one blue bead, for monthly attendance and one green one, because "You are only green once." It is quite often that the green means "recycled." More often than not, the leaders are recycled from another position., either recently or years ago.



Geese among other birds migrate in a "V" formation. Flying in the shape of a "V" allows geese to have an equal field of vision while conserving energy, using wingtip vortices to decrease any drag in flight. The bird in the front is working the hardest, but when the leader grows weary it rotates to a position farther back and allows another feathered pilot to take its place. This formation is so successful in conserving energy that birds who fly in "V" formations have been recorded to have lower heart rates than those who do not. If one of the birds flies out of formation, they will feel the increase in drag nudging them back into position. Perhaps most impressive, if a bird in the formation falls ill or is shot, two other birds will accompany it on the descent, aiding and protecting the injured bird until it either recovers or dies. The two helpful geese will then rejoin the formation.

Scouting leadership is much the same, each leader assists the others in their position. After a Scouter leads for a while, they are rotated out from the front to join the ranks, serving on the Committee or some other important position. In a good program everyone gets a rest from the trenches to prevent burnout. As with geese, it doesn't reflect one way or the other on the leader, it is just good for the program. It also gives others the chance to lead and learn what it is like to fly our front of the "V."

When it is your time to lead, lead out and Do Your Best. When it is time to follow, move quietly back into the ranks and find the most useful way to serve. As we journey into our next century, let us do so united, wing tip to wing tip, arm in arm, dancing and singing our way into our Great Second Century.

**John Gillespie Magee, Jr***Author of High Flight*

During the desperate days of the Battle of Britain, hundreds of Americans crossed the border into Canada to enlist with the Royal Canadian Air Force. Knowingly breaking the law, but with the tacit approval of the then still officially neutral United States Government, they volunteered to fight the Nazis.

John Gillespie Magee, Jr., was one such American. Born in Shanghai, China, in 1922 to an English mother and a Scotch-Irish-American father, Magee was 18 years old when he entered flight training. Within the year, he was sent to England and posted to the newly formed No 412 Fighter Squadron, RCAF, which was activated at Digby, England, on 30 June 1941. He was qualified on and flew the Supermarine Spitfire.

Flying fighter sweeps over France and air defense over England against the German Luftwaffe, he rose to the rank of Pilot Officer.

On 3 September 1941, Magee flew a high altitude (30,000 feet) test flight in a newer model of the Spitfire V. As he orbited and climbed upward, he was struck with the inspiration of a poem — "To touch the face of God."

Once back on the ground, he wrote a letter to his parents. In it he commented, "I am enclosing a verse I wrote the other day. It started at 30,000 feet, and was finished soon after I landed." On the back of the letter, he jotted down his poem, 'High Flight.'

Just three months later, on 11 December 1941 (and only three days after the US entered the war), Pilot Officer John Gillespie Magee, Jr., was killed. The Spitfire V he was flying, VZ-H, collided with an Oxford Trainer from Cranwell Airfield flown by one Ernest Aubrey. The mid-air happened over the village of Roxholm which lies between RAF Cranwell and RAF Digby, in the county of Lincolnshire at about 400 feet AGL at 11:30. John was descending in the clouds. At the enquiry a farmer testified that he saw the Spitfire pilot struggle to push back the canopy. The pilot, he said, finally stood up to jump from the



plane. John, however, was too close to the ground for his parachute to open. He died instantly. He was 19 years old.

Part of the official letter to his parents read, "Your son's funeral took place at Scopwick Cemetery, near Digby Aerodrome, at 2:30 P.M. on Saturday, 13th December, 1941, the service being conducted by Flight Lieutenant S. K. Belton, the Canadian padre of this Station. He was accorded full Service Honors, the coffin being carried by pilots of his own Squadron."

John's parents were living in Washington D.C. at the time, and the sonnet was seen by Archibald MacLeish, who was Librarian of Congress. He included it in an exhibition of poems called 'Faith and Freedom' in February 1942. And after that it was widely copied and distributed. These copies vary widely in punctuation, layout, and capitalization, as I found out from readers! The original is in the Manuscript Division of the Library of Congress, and I think I've transcribed it correctly. Note that most printed versions use "... even eagle" but the original seems to be "... ever eagle," with similar penmanship to the preceding "never."

High flight was read over pictures of mountains and American flags and fighter aircraft as a station closing video on US television stations. To buy an excellent DVD of this video, along with many people reciting the poem, see Ray Hass at HighFlightProductions

High Flight has also inspired many parodies, some of which are in the humor part of this collection.

Ronald Reagan, addressing NASA employees following the tragic loss of the Challenger 7 crew on STS-51L, used the poem in a well-remembered line:

"We shall never forget them nor the last time we saw them, as they prepared for their mission and waved good-bye and slipped the surly bonds of Earth to touch the face of God."

## TRAINING TIP

### Hail Den Leaders!

*Bill Smith, the Roundtable Guy*

### Hail Den Leaders!

About a dozen years ago I wrote the following bit about den leaders. I had noticed that pack organization charts always seemed to put den leaders at the very bottom of the hierarchy and I wasn't sure that was where they belonged.

*The program runs on DLs. Do anything to keep them happy and productive. Don't let anyone pile extra duties on them. They are not someone's personal messenger, or delivery boy and especially they are not your wait staff at the Blue and Gold Banquet. Their only job is to lead the dens.*

Leading a den is a tough job! It's a lot tougher than being a Cubmaster, or especially a Scoutmaster. I had those jobs for several years and each was a snap compared to the few months when I filled in for absent den leaders. Those Tuesday afternoons inexorably came around every week and

I had to be ready each time with a newly planned program, all sorts of equipment for projects and games and I had to keep track of all the little marks in well-thumbed books or worry about what might be in books that never showed. I've never been a Webelos DL but it seems – at least on paper – to be even tougher. I'm not about to get in line for the job either.

As a Cubmaster, I just had to show up at the neighborhood elementary school once a month and try (not very hard) to make an absolute fool of myself. All I had to do was to wear orange gloves and wave my arms a bit and they would all sing *Tarzan* or *Wetspers*, and then introduce the dens: *Here comes Den Four! They have a new skit for us!*

As a Scoutmaster, I would show up every week to watch our cadre of Patrol Leaders and helpers put on their troop meetings. My only part was to recite one or two BP-like homilies at the end of the meetings. Our monthly campouts were even easier. All I ever did was to sit in my sort of comfortable camp chair, drink a never-ending supply of coffee and watch the boys play the wonderful game of Scouting.

I failed to mention all the help I got from the pack and troop committees. They took care of all the finances, the advancement, got the tour permits and booked the meeting places. They were wonderful for me as a CM or SM.

I'm not so sure that den leaders get that much help from their pack committees. Yet, I truly believe that:

**In Cub Scouting, you're either a den leader  
or your main job is to help den leaders.  
There is no other choice.**

So, who should be helping den leaders?

### Pack Leaders

One of the first things I learned as a Cubmaster was that the success of our pack depended a lot more on den leaders than on me. I gradually found ways to help dens and den leaders become successful. We made dens the stars of our pack meetings. We protected the DL corps from having extra jobs thrust on them. For example: *let the DLs take care of the product sales or they could serve the food at the Blue and Gold.*

Good Pack Trainers, Treasurers and Committee Chairs can do a lot to ensure that den leaders get the training, funding and support they need to make their programs successful.

Someone in the pack structure should be doing their best to line up assistant DLs and Den Chiefs.

### Commissioners

Most Unit Commissioners totally ignore dens and den leaders even though the conditions of den programs are better indicators of unit health than most other items on their check lists. District Commissioners, as a rule, are even more oblivious to the concerns of den leaders.

**Roundtable**

Roundtables can be invaluable to den leaders. Most den leaders require a constant flow of ideas. Den programs consume program items at an alarming rate.

Until now, many RT have provided all sorts of program help on themes, projects and other activities. It is difficult to foresee how RT staffs will handle CS2010 but I have seen enough talent at dozens of Roundtables I have visited to be confident that they will do a great job. I just wish every RT was that good.

**District/Council committees**

It is difficult to imagine a Quality District without a lot of successful dens in the majority of the Cub Packs. District and even council committees can help by understanding how their calendars affect den leaders. I've seen some outstanding workshops and theme fairs over the years that provided den leaders with valuable help. Many DLs have reported that their best help came from Pow Wows or Universities of Scouting.

**National programs**

The National Council has an excellent track record of providing excellent resources for den leaders. Program Helps, the How-To Book and the CS Leader Book are just loaded with useful information. The current Job Specific training is particularly well done. I sincerely hope that the new organization will be able to maintain this quality.

No tribute to den leaders could be complete without this glorious poem by Julie H. Erickson, Lake Bonneville (now Trapper Trails) Council, Ogden, UT.

**I AM A DEN LEADER.**

*I am a den leader.*

I own a hot glue gun, a ring toss game, an American flag, and a 12 passenger van.

I know all about tour permits, permission slips, and registration forms.

I save bits of string, scraps of lumber, old tin cans, and a whole garage full of newspaper.

*I am a den leader.*

I get excited over paper sack kites that really fly, boys who remember to bring their books, and first aid kits that finally sell.

I laugh at Boy's Life jokes, cheer for my den kick ball teams, I sing Frankenstein songs at pack meetings, and once wept with a Cub who just found out parents are getting a divorce.

*I am a den leader.*

I have bribed new Cubs through the Bobcat trail, herded unruly boys along library tours, puffed my way up steep mountain tracks, and panicked when I looked down the other side. I have threatened to quit more than once.

*But I am still a den leader*

My patch says I'm "trained", but I know I still have a lot to learn from district and council leaders, Cubmasters, other den leaders, and especially my boys.

And I still have one more lesson to teach. I will not give up, especially on any of my boys.

*So I am still a den leader.*

I like to think there is a special place in heaven reserved for den leaders. Surely, they would have a need for bird feeders

and barometers and someone who could love a dirty faced Cub Scout.

I hope when I die there is a hot glue gun plugged in and waiting.

For I am a den leader.

**And a heart-felt thank you to every DEN**

**LEADER, past and present! *Bill.***

**What are YOU going to do now?**

*Go get 'em. We need all the help we can get.*

*The best gift for a Cub Scout.....  
.....get his parents involved!*

✓ **Also, be sure to visit Bill's website**

<http://rt492.org/>

to finds more ideas on everything Cub Scouting.

**Have any Comments for Bill  
just click right here!**

**PACK ADMIN HELPS**

**Cub Scouts 2010**

Adapted from [www.scouting.org/cubscouts2010](http://www.scouting.org/cubscouts2010)

**The Ideal Cub Scout Situation**



**Reality Challenges the Ideal Situation**

**Societal Obstacles**

- Changes in family structures
- Increased demands on parental time
- More competition for boys' interest
- Shift in new leader expectations/style

**What is Happening?**

**Reality Reflected in data**

- On average, dens only meet 2.4 times per month
- Less than 30% of den leaders attend Roundtables
- Less than 1 in 3 CS leaders buy or are provided Program Helps
- Peak membership was 1972, declining 1%/year
- National retention levels are around 65%

**Clearly, change is needed!**

**What is Cub Scouts 2010?**

- It's Cub Scouts (the 2010 is only when it starts)
- It's a method of delivering the existing program that is handbook based and focuses on den meeting activities leading to youth advancement.
- Recognizes shift in family dynamics by moving MOST advancement into the den
- Provides den leaders with specific den meeting plans to ease planning and enhance meeting organization

**What's Not Changing?**

- Foundational elements of the Cub Scouting program (purpose, methods, core values, etc.)
- Youth handbooks and advancement
- Pack meeting structure (7 steps)
- Role of Roundtable in communications & training

**What Is Changing?**

- Themes as we know them (craft/seasonally based) will be eliminated
- Themes will be replaced by a monthly focus on the twelve core values of Cub Scouting:

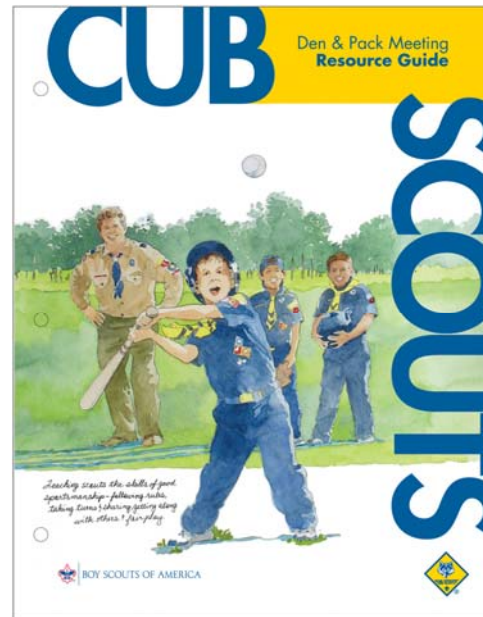
September 2010	Cooperation	March 2011	Compassion
October 2010	Responsibility	April 2011	Faith
November 2010	Citizenship	May 2011	Health and Fitness
December 2010	Respect	June 2011	Perseverance
January 2011	Positive Attitude	July 2011	Courage
February 2011	Resourcefulness	August 2011	Honesty

- Majority of advancement happens in den (not a change for many)
  - In-den advancement: den leader signs handbook
  - In-home advancement: parent/guardian signs & den leader initials to acknowledge
- One Cub Scout den meeting structure for all levels - (7 steps for Tiger/Wolf/Bear/Webelos)

All Ranks
Before the Meeting
Gathering
Opening
Business Items
Activities
Closing
After the Meeting

- Share/Discover/Search no longer part of Tiger Cub den meeting structure
- Training is changing to recognize:
  - The change in delivery method
  - The increasing time pressures of our volunteers
- New Fast Start for Den Leaders and Cubmasters
  - Less Scouting history, BSA organization and administration
  - More about how to run den/pack meetings and use the new delivery method
- Revised Position Specific:
  - New online version for den leaders, Cubmasters and pack trainers
  - Continued support for in-person, PowerPoint version

• **New Den & Pack Meeting Resource Guide**



- Replaces the annual *Program Helps*
- Designed as “one-stop” resource for den leaders & Cubmasters
- Available online and via Scout Shops

**New Resource Guide Table of Contents**

Table of Contents	
<b>I. Introduction</b> . . . . .	<b>X</b>
Introduction . . . . .	X
Purposes of Cub Scouting . . . . .	X
Methods of Cub Scouting . . . . .	X
Cub Scouts: A Positive Place . . . . .	X
Using the Den and Pack Meeting Resource Guide . . . . .	X
Tips and Thoughts on Den and Pack Meetings . . . . .	X
General Tips . . . . .	X
Den Meeting Tips . . . . .	X
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<b>II. Den Meeting Plans</b> . . . . .	<b>X</b>
Introduction to Den Meeting Plans and How to Use Them . . . . .	X
Tiger Den Meeting Plans . . . . .	X
Wolf Den Meeting Plans . . . . .	X
Bear Den Meeting Plans . . . . .	X
Webelos Den Meeting Plans . . . . .	X
<b>III. Pack Meeting Plans</b> . . . . .	<b>X</b>
Introduction . . . . .	X
Pack Meeting Plans . . . . .	X
<b>IV. Resources, Forms, and Applications</b> . . . . .	<b>X</b>

**The Resource Guide offers -**

- Light introduction into Cub Scouting (not to replace Leader Book)
- Tips and suggestions on den meetings, pack meetings, using the *Guide*
- Den meeting plans for ALL Ranks
- Pack meeting plans
- Resources

**Resource Guide Availability**

- Current Fast Tracks den meeting plans are available as meeting-by-meeting download at no charge.



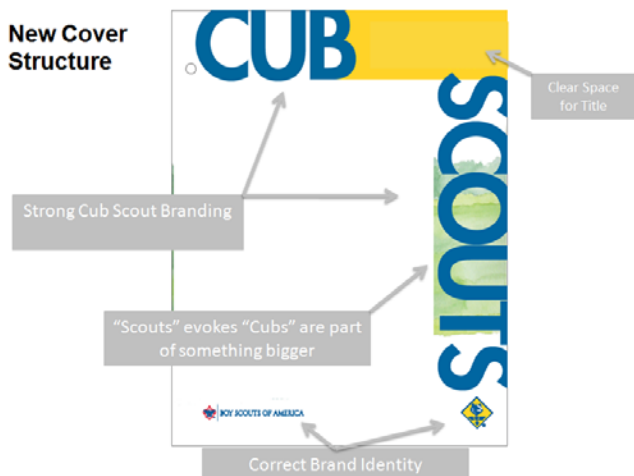
- New plans and the Resource Guide will be offered as follows:

Option	Pricing	Description/Functionality
1. Individual Item Download	No Charge	Download plans individually. This is the functionality/pricing today with Fast Tracks.
2. Full Resource Guide Download	TBD	One download, full book, all ranks
3. Purchase Physical Resource Guide	TBD	Physical Resource Guide, three hole punched, shrink wrapped.

From research that went into the new Resource Guide there will be -

**New Covers for Cub Scout Leader Publications**

- Project started with design of the cover for the NEW Den & Pack Meeting Resource Guide



**Where and When can I get more information??  
On the Web -**



**Rollout Schedule - Publications**

Publication	Nature of Change	Timing/Comments
Den & Pack Meeting Resource Guide	New	3/15
CS Leader Book	Major Re-write	3/15 w/ new cover, shorter with less duplication
CS Roundtable Guide	New	3/15 w/ new cover
Advancement Committee Policies & Procedures	Minor	1/2010, subsequent reprint will have new cover.
CS Academics & Sports	13 new awards	1/2010, subsequent reprint will have new cover.
CS Leader How To Book	No changes	New cover @ next reprint
Webelos Leader Guide	TBD	5/2010 w/ new cover
Youth Handbooks	Minor revisions	As Supply requires (Summer 2010+)

**Rollout Schedule - Training**

Training	Timing/Comments
Fast Start Training for Den Leaders & Cubmasters	April 2010
Position Specific Leader Training (PowerPoint)	April 2010
Position Specific Leader Training (Online)	TBD

**Everyone's (RT Commissioners, Unit Commissioners, Committee Chairs, Cubmasters, and others) Role To Ensure Success**

- Talk about the benefits of the change to your units, districts, and councils.
  - Increased retention/more youth served
  - More fun for the boys thru advancement activities
  - More satisfied den leaders/easier to plan and run meetings
  - Easier for a new volunteer to get started
- Aggressively promote the website to other leaders in your units, districts, and councils.
  - Roundtables
  - Pow Wows
  - Newsletters
  - Emails to other volunteers
  - Training sessions
  - Pack Leaders' Meetings
  - Websites
- Ensure that CS 2010 is part of your Annual RT Planning Meeting, your Pack's Annual Planning Conference, and other key training and planning meetings for 2010-2011.



## FAQs

From [www.scouting.org/cubscouts2010](http://www.scouting.org/cubscouts2010)

**1. Why are we doing this program?**

Initially the experience of one pack which developed and used this program led us to believe it had merit. In a pilot study of 21 dens in Bay-Lakes Council using this program, the retention rate of Cub Scouts went from 64% to 85%. In packs where some of the dens were using the program and other dens were not, the retention increased significantly for those using the program and did not increase for those not using the program. Equally important, den leaders using the program were very happy with it and felt it made their job as a den leader much easier and more enjoyable.

**2. How closely must we adhere to the outline for each program level?**

The outline for each program level ensures the completion of each rank in a timely manner and assures that each boy will receive significant other advancement on a regular and frequent basis. This is what keeps boys in Cub Scouting. Substitutions for requirements may not be made, since that would not fulfill the requirement. For some achievements and electives, the boy is to choose among a few different options for completion of a requirement. The outline has made that choice for you. You may find that a different choice works better for your den than the choice in the outline. When that is the case, go ahead and use your choice. For example, in the Tiger Cub program, achievement 2: Where I Live, requirement 2G is to visit a police station or a fire station. In the outline, the visit is made to the police station. This choice was made because Wolf Cub Scouts are required to visit the fire station. If you wish, you may visit the fire station as Tigers and then again as Wolves. We felt it would be more interesting for the boys to participate in the choice we made.

**3. Can this program help us to have better organized den and pack meetings?**

That is one of the results of using this program. If a den leader follows the "preparation and materials needed" section of each den meeting, it is easy to organize a meeting. If boys are receiving badges and awards at every pack meeting, it makes for a better pack meeting, as well.

**4. How many den meetings are expected to be held per month and per year?**

The outlines are written to give you approximately 16 den meetings per year. Our observation has been that most dens hold two den meetings per month. You may begin in late August, early September, or mid-September. You may hold either one or two den meetings in the month of December, depending on the religious and family commitments of the members of your den. You may conclude in mid-May, late May, or early June. The outline is not dated, merely sequenced. With two den meetings, one pack meeting, and one other pack activity each month, each Cub Scout is having approximately four Scouting events per month.

**5. If a parent and/or Scout want to complete some requirements at home which we will do later in a den meeting, what should we do?**

Parents are always welcome and encouraged to work on advancement with their son. When we do it later in the den

meeting, it may be done in a different way. It will certainly serve as reinforcement for the boy.

**6. Must I follow the sequence of each outline?**

The sequence was written with the primary goal of earning the rank at the appropriate time of the year. For Wolf, Bear, and Arrow of Light, this is in time for the Blue and Gold Dinner in February. The sequence was also determined by weather and seasonality for certain requirements and electives. The sequence of each den meeting was written with the goal of maximizing use of time at the den meeting and having a good mix of quiet activities and active time at each den meeting.

**7. Can all requirements and electives be completed in a den setting?**

No. The handbooks and outlines tell which must be completed at home or with a parent.

**8. As I read the outlines from Tiger Cubs through Webelos II, some of the requirements and activities seem to be similar to those completed in earlier years. When I look at a Boy Scout Handbook, the same thing is true. Why?**

You have discovered one of the beauties of the Boy Scouting program. From start to completion, it is a spiral of learning and fun that builds upon previous experience in the program. Basic skills and concepts learned at an early age are repeated and expanded upon to reinforce the knowledge. It is all age-appropriate.

**9. What if a boy misses a den meeting and, therefore, does not complete the advancement?**

Please contact the parent. The boy will be able to complete the missed activity with his family. Make certain the parents understand that the boy will be able to receive his badge or award only after the activity has been completed. Ask them to inform you when it has been completed.

**10. Will a den leader have time during each den meeting to sign the handbooks, indicating requirements have been completed?**

During den meetings, the den leader will be engaged in the activities of the meeting. It will be difficult to have time to sign books during a meeting. A better way of doing this may be for the leader to collect the books at the end of the meeting, bring them home, and sign them at a time when there are fewer distractions than there would be at a meeting. It is important to return the handbooks to the boys in a timely manner. It might be best for the books to be collected only periodically, perhaps every month or two.

**11. Are den and pack activities planned for the summer?**

Yes, but on a reduced scale. The outlines show how certain requirements and electives are best completed during the summer months. On the display table, I have samples of flyers representing summer activities.

**12. Doesn't it seem that Cub Scouts 2010 takes all the fun out of the Cub Scouts and makes a den meeting "more school"?**

- Most dens already use an approach similar to Cub Scouts 2010 for their meetings. In a 2005, a Central Region analysis of randomly selected Cub Scout den found that 96.7 percent were completing at least half or more of each achievements in their den meetings. (2005: Central Region Recruitment & Retention Study)

- All of the activities developed for the Cub Scout program are designed to be fun and Cub Scouts 2010 uses the same involving activities as those used historically. Scouts and den leaders involved in Cub Scouts 2010 report high satisfaction with the program activities.
- The activities included in the achievements have been tested with boys (Scouts and non-Scouts) and boys indicate that they would like to participate in most of the activities. Only a few, such as the food pyramid and the escape plan, were considered to be too much like what they learned in school. (2006: Cub Scout Content Study)

### **13. Aren't two den meetings per month, insufficient to provide the social interaction parents want from CS?**

No, dens will actually meet up to 4 times a month : 2 den meetings where boys meet in the traditional setting and complete parts of the requirements. One field trip to go see something related to an achievement or just to go have fun as a group. And one Pack meeting where all the dens meet and celebrate the boys achievements.

### **14. Aren't the pilot evaluation outcomes methodologically flawed? Weren't all participating leaders trained and required to follow the program? Was there an untrained control?**

- All den leaders who agreed to participate in the pilot were required to attend an orientation during which the piloted delivery method was communicated. And they were required to follow the program. No additional training was provided.
- Research Services conducted a robust evaluation to understand how pilot dens differed from non-pilot dens. The dens, which came from three regions, were matched or selected to have similar demographics and retention rates.
- Similarities: Membership trends, family/day camping attendance, participation in Friends of Scouting, working on achievements/electives in den meetings, satisfaction with pack meetings, etc.
- Differences:
  - o Pilot dens more positive on: Residence camp attendance, participation in council wide product sales, satisfaction with ease of preparing for den meetings and role as a den leader.
  - o Non-pilot dens higher on use of skits at pack meetings and use of Program Helps.

### **15. Why hasn't the overall Cub Scout membership in the Central Region and Bay Lakes Council increased as a result of the Fast Tracks pilot?**

There are two main reasons the overall number of Cub Scouts did not increase in the Bay Lakes Council or in the Central Region:

1. The percentage of dens involved in the pilot in any one council, while sufficient for pilot purposes, was too small for the positive results to be reflected in overall membership for the councils.
  - o In 2005, the Bay Lakes pilot involved 20 dens, or approximately 1 percent of the dens in the council. By 2006, the pilot was expanded to 178 dens, or approximately 11 percent of the dens in the council.

- o In 2007, 1,117 dens, or approximately 2 percent of the dens in councils in the Central Region, participated in the pilot.
2. Cub Scout TAY in the Bay Lakes Council and Central Region declined during the time period of the pilot study. However, from 2005 to 2007, Bay Lakes increased its Cub Scout density from 24.4 percent in 2005 to 25.5 percent in 2007.

### **16. Won't the set lesson plans/den meeting guides allow insufficient flexibility for units without access to specified activities (zoos, museums, etc.)?**

While the pilot had to be rigid in how the den meeting plans were used so that we could study the effect on retention, when the plan rolls out we will continue to leverage the flexibility and creativity of our leaders to use the resources in their community to provide for the field trip experience (similar to the way the Tiger Cub go see it is done today).

### **17. Won't the den meeting plans need to be reworked for programs that are age-based versus grade based (such as the LDS church's where Scout's beginning level is defined by his age, not grade) or for programs that meet year round?**

- The lesson plans will work for age-based and year round programs if the same rotation is used each year.
- If a child's birth date is in January and he enters the Bear program then, he will work with the group on the achievements in the January lesson plan.
- Before his next birthday he will have experienced all of the achievements that were worked on prior to January and will advance then.
- Additionally, den meeting plans will be developed as part of the rollout process which will provide den leaders direction for programs which meet year round.
- Finally, the den meeting plans will tied to existing summer time programs and include a guide for summer time meetings with the program.

### **18. Wouldn't fewer den meetings per month cause some units which meet weekly to search out competing programming, potentially resulting in loss of membership.**

- There are weekly meetings in this program: two den meetings, one activity trip and one pack meeting.
- Dens are welcome to meet more frequently, if they wish. Additional meeting plan are being developed to support those dens who meet more frequently.

### **19. Doesn't Cub Scouts 2010 reduce or eliminate the role of the family in the Cub Scout program?**

- Those who have used this program have found that family participation increases because so many of the achievements and electives in the handbooks call for family participation.
- Further, with this method, specific direction is provided to families as needed defining what the boy and his family need to be working on prior to the next meeting
- In addition, because each boy is receiving tangible recognition of his advancement at most every pack meeting, family attendance tends to increase. They all want to be there to see their child receive an award.
- Arrow points and belt loops can still be worked on with the family.

## 20. How does Cub Scouts 2010 work if a den meeting is missed or if a boy joins in the middle of the program year?

Just as is the case today, at that time the den leader works with the family to let them know what they missed, so that they can catch up with the rest of the boys

## 21. Doesn't the more rigid den meeting plans and schedule go against the emerging call (from academics and others) for more unstructured time/play for youth?

- The Cub Scout program has never been an unstructured program. Each meeting is planned and has structure as the program is currently structured.
- Many of the actual activities to complete the achievement or elective are unstructured activities. Dens who use this model have lots of fun at den meetings.

## SPECIAL OPPORTUNITY

### Science Belt Loop and Pin

[www.usscouts.org](http://www.usscouts.org)



The requirements listed below are taken from the Cub Scout Academics and Sports Program Guide (34299B) 2006 Printing.

#### Note:

Webelos Scouts that earn the Science Belt Loop while a Webelos Scout also satisfy requirement 4 for the Scientist Activity Badge.

#### Requirements

Tiger Cubs, Cub Scouts, and Webelos Scouts may complete requirements in a family, den, pack, school, or community environment. Tiger Cubs must work with their parents or adult partners. Parents and partners do not earn loops or pins.

#### Belt Loop

Complete these three requirements:

1. Explain the scientific method to your adult partner.
2. Use the scientific method in a simple science project Explain the results to an adult.
3. Visit a museum, a laboratory, an observatory, a zoo, an aquarium, or other facility that employs scientists. Talk to a scientist about his or her work.

## Academics Pin



Earn the Science belt loop, and complete five of the following requirements:

1. Make a simple electric motor that works.
2. Find a stream or other area that shows signs of erosion. Try to discover the cause of the erosion.
3. Plant seeds. Grow a flower, garden vegetable, or other plant.
4. Use these simple machines to accomplish tasks: lever, pulley, wheel-and-axle, wedge, inclined plane, and screw.
5. Learn about solids, liquids, and gases using just water. Freeze water until it turns into ice. Then, with an adult, heat the ice until it turns back into a liquid and eventually boils and becomes a gas.
6. Build models of two atoms and two molecules, using plastic foam balls or other objects.
7. Make a collection of igneous, metamorphic, and sedimentary rocks and label them.
8. Learn about a creature that lives in the ocean. Share what you have learned with your den or family.
9. Label a drawing or diagram of the bones of the human skeleton.
10. Make a model or poster of the solar system. Label the planets and the sun.
11. Do a scientific experiment in front of an audience. Explain your results.
12. Read a book about a science subject that interests you.

For helpful worksheets for earning these awards go to

<http://usscouts.org/advance/cubscout/academics/science.asp>

## Boys' Life Reading Contest for 2010



### SAY 'YES' TO READING

*Sorry but there is nothing posted on [www.boyslife.org](http://www.boyslife.org) yet about the Reading Contest for 2010. It still has the rules and patch for 2009 posted. If you want info, I suggest you write to Pedro and ask why it is not posted yet!!*

**Knot of the Month**

**A New Award for Cubmasters!!!**

*The Unit Leader Award of Merit replaces the Scoutmaster Award of Merit, the Varsity Team Coach Award of Merit, and the Venturing Crew Advisor's Award of Merit programs. This new recognition has revised requirements and may be earned by Cubmasters as well. CD*

**Unit Leader's Award of Merit**

- <http://www.ussscouts.org/awards/unitawardmerit.asp>
- [http://www.scouting.org/filestore/pdf/512-003\\_WB.pdf](http://www.scouting.org/filestore/pdf/512-003_WB.pdf)
- <http://www.ctyankee.org/program/training/knots>



**Background**

Quality unit leadership is the key to a quality unit program—and it leads to better Scout retention. Statistics show that if young people stay engaged in the program for at least five years, the BSA's influence likely will stay with them for the rest of their lives. A quality Scouting experience will help keep Scouts in the program, and the Boy Scouts of America created the Unit Leader Award of Merit to recognize the quality unit leaders who make that happen.

The Unit Leader Award of Merit replaces the Scoutmaster Award of Merit, the Varsity Team Coach Award of Merit, and the Venturing Crew Advisor's Award of Merit programs. This new recognition has revised requirements and may be earned by Cubmasters as well.

**Requirements**

The nominee must:

1. Be a currently registered Cubmaster, Scoutmaster, Coach, or Advisor who has served in that position at least 18 continuous months.
2. Meet the training requirements for the registered position.
3. Distribute a printed or electronic annual unit program plan and calendar to each family in the unit.
4. Have a leader succession plan in place.
5. Effectively use the advancement method so that at least 60 percent of the unit's youth have advanced at least once during the last 12 months.
6. Cultivate a positive relationship with the chartered organization.
7. Project a positive image of Scouting in the community.

**Nomination Procedure**

1. The unit committee chair completes the Unit Leader Award of Merit Nomination Form on behalf of the unit committee. For Boy Scout troops, Varsity Scout teams, and Venturer crews, the nomination must include endorsement by the senior patrol leader, team captain, or crew president, respectively.
2. The unit or district commissioner certifies that the form is complete.
3. The unit submits the nomination form to the council for approval by the Scout executive and council commissioner or president.

**The Award**

Upon receipt of the approved nomination form, the council may present the Unit Leader Award of Merit, which includes a certificate, square knot with the appropriate device, and a special unit leader emblem. Recognition of this achievement may be presented at appropriate district or council events, such as district or council leader recognition dinners, training events, and board meetings.

The award may be presented for each program, Cub Scouts, Boy Scouts, Varsity, and Venturing, if the individual meets the requirements in each program. Only one knot is worn with the devices of each program in which the award was earned.

You can get a PDF of the application form at this address [http://www.scouting.org/filestore/pdf/512-003\\_WB.pdf](http://www.scouting.org/filestore/pdf/512-003_WB.pdf). The form is interactive and may be completed on-line but you have to save it to your hard drive or other device..

**GATHERING ACTIVITIES**

*Note on Word Searches, Word Games, Mazes and such – In order to make these items fit in the two column format of Baloo's Bugle they are shrunk to a width of about 3 inches. Your Cubs probably need bigger pictures. You can get these by copying and pasting the picture from the Word version or clipping the picture in the Adobe (.pdf) version and then enlarging to page width. CD*

**Lost in Space Word Search**

*Baltimore Area Council*

Find 27 words about astronomy hiding across, down, backwards, and diagonally. For a harder puzzle, cover up the word list and see how many you can find on your own.

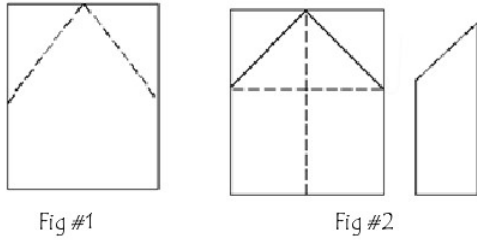
T H E S A T E L L I T E S U ' C I  
 E A N H A N T T I F S T A R S I  
 C M S U U L T L T T H E O A R Y  
 I L E T R I U E K E M B T N E S  
 V T P T R E M B L I A U S U T H  
 A E T L S O T D E E R T B S E R  
 N I N E C Y N I L N S N G S O F  
 U S O U A T S O P U R C N A M R  
 S E O S S C H R M U O M O E P H  
 O S M E T K D E A Y J E T P N T  
 T S P A C E R T I L R E U E E R  
 L Y O A F C N S L O O L L S T A  
 A I L Q U A S A R R S S P R L E  
 I B N R E Y X A L A G L U G G A  
 G E Y M A R K R R P U S S E L L

- |               |           |              |
|---------------|-----------|--------------|
| ASTEROID BELT | METEOR    | SATURN       |
| ASTRONOMY     | MOON      | SHUTTLE      |
| BLACK HOLE    | NEBULA    | SOLAR SYSTEM |
| COMET         | NEPTUNE   | SPACE        |
| EARTH         | PLANETS   | STARS        |
| GALAXY        | PLUTO     | SUN          |
| JUPITER       | PULSAR    | TELESCOPE    |
| MARS          | QUASAR    | URANUS       |
| MERCURY       | SATELLITE | VENUS        |

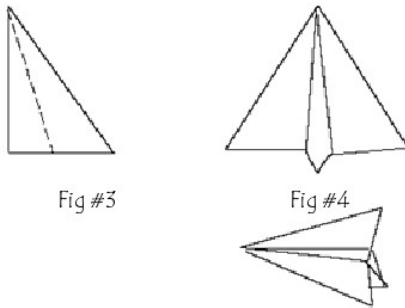


**Paper Glider**  
*Catalina Council*

1. Fold down upper two corners (Fig #1)

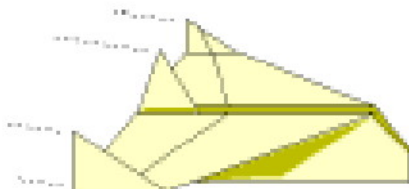


2. Fold paper in half lengthwise (Fig #2)
3. Take out two corners and fold as shown in Fig #3

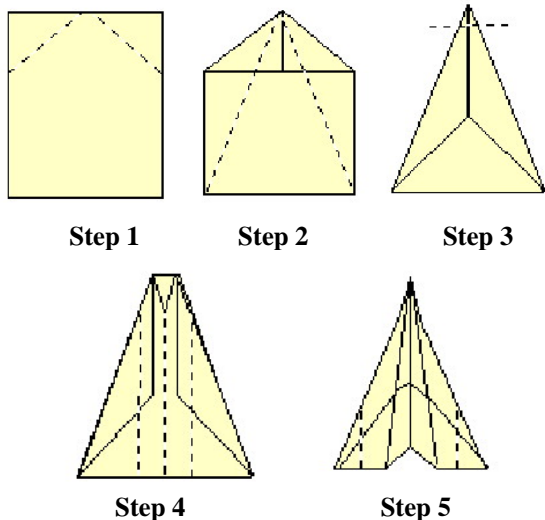


4. Your finished glider should look like Fig #4.

**Flying Paper Wing**  
*Catalina Council*

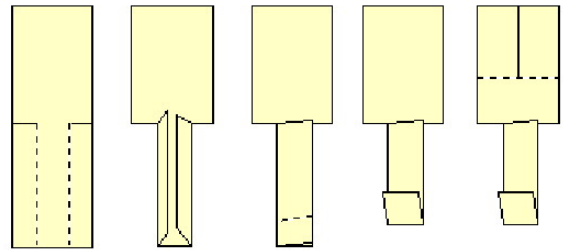


Find some scrap paper, and try to fold this paper airplane. Remember to recycle the paper when you are done.



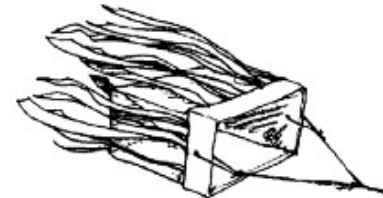
**Paper Copter**  
*Catalina Council*

Construct this paper helicopter from colored card stock (80 lb. paper). To make the copter snip faster, attach a large paper clip to the bottom flap or tape on a penny.



**Grocery Bag Kites**  
*Catalina Council*

- Materials:**
- ✓ large paper grocery bag
  - ✓ hole punch
  - ✓ circular reinforcements
  - ✓ scissors
  - ✓ lightweight string
  - ✓ markers
  - ✓ stapler or glue
  - ✓ crepe paper streamers



**Directions**

- \* Punch a hole in each of the four corners of a large paper bag at least 1 inch from the top edge of the bag.
- \* Stick a circular reinforcement around each hole on each side of the bag.
- \* Cut two 3-foot lengths of string and tie each end to a hole to form two loops.
- \* Tie another 3-foot length of string through the two loops to create a handle.
- \* Decorate the bag with markers. Glue or staple crepe-paper streamers to the bottom of the bag.
- \* Hold onto the string as you run; the bag-kite will fill with air and float behind you.

**Rocket Assembly Teams**  
*Grand Teton Council*

Hand out paper slips with an airplane/rocket part written on each. Pack members arriving are each given a slip and are to find other members with the same airplane part. If you want to get really elaborate, the papers could be shaped as the part in question, rather having the part written on it. Depending on the expected size of attendance, this will break the pack into smaller subgroups. Members of each group are to introduce themselves to each other and collect information from each other.

**Suggested parts for cards:**

Propeller	Jet	Wing
Stabilizer	Fuselage	Nosecone
Tailfin	Auxiliary Tank	Cabin
	Landing Gear	

**Suggested information to learn about team members:**

- ✓ Birth date (no year)
- ✓ Have you ever flown in an airplane
- ✓ If so, when first; when last
- ✓ What is your favorite destination for a flight (could be "wishful thinking")
- ✓ Do you know anyone who is a pilot, flight attendant, etc.
- ✓ What airports have you been to
- ✓ Have you ever watched a rocket launch
- ✓ Do you know the name of any astronaut – past or present

A short time during the meeting could be dedicated to allowing one person from each group to introduce another member of the group to the whole pack, and relate one or more of the Flight-related items they have found out about the person. This should preferably be a Cub Scout (introducing or being introduced).

**Paper Plane Folding**

*Grand Teton Council*

Everyone gets a sheet of paper and is challenged to make a paper airplane. Sheets could be ½-sheets of copier paper (8 ½ x 11). Have everyone write their names on the plane they made. Planes don't have to be flyable. Alternatively, a sure-fire flyable pattern could be posted that attendees are encourage to copy.

**Airplane Word Search**

*Utah National Parks Council*

G G R O U N D C R E W F K I O  
H R O N S O E T O A S L P L T  
T O F M H W R L W M P I L O T  
N W I N D W B E E R D G W X H  
E C O C K P I T G O C H H Y A  
D O S F T E E N R U R T E G W  
E N A E O N L B G N E A L E S  
T T K T X Y G Y K S I T T N I  
T R S A F E T Y B E L T O M C  
A O H A W G N I H T A E P A T  
B L Y T T L E Y R E I N R S E  
E T R K I I T O G R L D P K R  
L O E D T D T X E M N A E N A  
C W G L I A A H T I A N V I G  
N E P A G F L J G N P T R O T  
U R F I C O K P I A K E A R K  
O S V R L C O N T L T C O W C  
R A M P A O R L T P S K A G R  
N F O L U N T W O D C H R E W  
I E F A L I G C H T Y A T T E  
W G N N D A I N T T P I W N I  
Y L O E T L S D T E M R I S G  
X I L G E G L I D E R A L E N  
O D T H S O K Y X R H S A R K

**Words to find**

AIRPLANE	COCKPIT	CONTROL
TOWER	FLIGHT	ATTENDANT
GLIDER	GROUND CREW	HELICOPTER
KITTY HAWK	NAVIGATOR	OXYGEN MASK
PILOT	SAFETY BELT	TERMINAL
WINGS		

**Birds of a Feather**

*Grand Teton Council*

*See the back of Baloo for this word search.  
 You may want to do this one as a Den Project!! CD*

**Famous Aviators And Astronauts**

*Grand Teton Council*

C L G H K J F Z M B T W X R L W K H E D Y  
Y H R N L T V S U W A S E J E R F N D D O  
I J A Y O B O Z V L G K O R R J E O M O A  
X F H R J R Z T L K K Y N P O V Z U T R P  
A M J S L A T Y R O B H A O Y X F C H A O  
F N U H L E S S F D E D T R G E A H G E A  
E Q S D O C S Y M R Y X U P R G L R I L V  
N K R S H W N L V R H V R O U N R I R M P  
I I X I E O A O I K A Z K V M W I S W A A  
N V R Q H C N R R N P L C J M L H T E I L  
A R O T Q B E N D A D V I H A I M A L L A  
A A N E R K C D Q H G B D E N B X M L L N  
D A E A E A V K Y Q U N E V N D W C I I S  
A A U R E T A W D L O G Y R R A B A V W H  
N N E L G N H O J T C R H X G T N U R I E  
R O B E R T G O D D A R D E F H N L O N P  
Y S R O K I S R O G I V P T S O P I T F A  
C H U C K Y E A G E R W F S G L N F R S R  
F A D S A L L Y R I D E T Y H A D F V Z D  
B R O T H E R S M O N T G O L F I E R I O  
Y T S L I T R Y X B U Z D O B X J C Y A Z

Alan Shepard	Clyde Cessna	Robert Goddard
Anthony Fokker	Dick Rutan	Sally Ride
Barry Goldwater	Howard Hughes	Wally Schirra
Chuck Yeager	Brothers Montgolfier	Igor Sikorsky
Buzz Aldrin	Wernher Von Braun	John Glenn
Wiley Post	Charles Lindbergh	Leroy Grumman
William Lear	Christa McAuliffe	Neil Armstrong
	Orville Wright	

**Flight Match Game**

*Utah National Parks Council*

**Write the letters that match next to each statement.**

1. He Produced the world's first practical seaplanes
2. Succeeded by studying flight controls. Basic principles used still today.
3. First Flight using air power
4. A pedal-powered flying machine 1885.
5. Father of aerial navigation
6. First to fly in machines heavier than air
7. Created helicopters in the United States

**Choose from the following**

- A. OTTO LILIENTHAL
- B. SIKORSKY
- C. EARLY ATTEMPTS
- D. WRIGHT BROTHERS
- E. AIR BALLOON
- F. GLEN CURTIS
- G. SIR GEORGE CAYLEY

*Answers to Flight Match Game:*

*1.F, 2.D, 3.E, 4.C, 5.G, 6.A, 7.B*

## OPENING CEREMONIES

### Cub Scout Airlines Catalina Council

This will tie the pre-opening, and opening, awards, program, and closing and other parts of your meeting together. Have the meeting room seating arranged like the seating on a giant airliner?

For pre-opening activity, have everyone coming in issued a ticket.

The opening is a call, announcing that Cub Scout Air Lines flight number (your pack number) is ready for boarding. People board, (Cub Scout flight attendants check tickets) and all are seated and fasten their seat belts. *(See next Opening Ceremony for more details)*

The Captain (Cubmaster) announces the destinations of this flight and wishes all a pleasant trip. Aircraft takes off, flies all around the United States, landing at various cities to see a skit by that nationally famous Den 1, or to sing a song led by the Den 4 singers.

For the awards, the airplane lands at various places to see famous people (brand new Wolf Cub Scouts), takes off and lands somewhere else to see a Cub Scout who is receiving arrow points. The Captain might present each boy earning an award with some silver pilot's wings (cardboard cutouts covered with aluminum foil) with his award.

At the end of the round trip flight, the aircraft returns home. Pilot announces that he was pleased to have all on the trip with him and closes with a Cubmaster's Minute relating to the "flight". The folks disembark and go home.

### Welcome Aboard Our Flight Catalina Council

Seat the boys in your Den in rows, lined up as if on a plane, with a pilot up in front.

The Den Leader, Den Chief, or a Cub who reads good says, Welcome aboard Flight \_\_\_\_\_ (pack number). I am your pilot, \_\_\_\_\_ (give name). We're flying today to adventures in Cub Scouting, with stops in fun, new skills, and advancements. But the good news is you won't have to change planes! We'll be flying at the speed of excitement, so buckle up and prepare for takeoff.

*(Hold up cardboard sign reading 'Fasten seat belt').*

As we cross this beautiful land, please join us in singing "America the Beautiful."

*(All sing the first verse)*

We're preparing to land in (whatever your first item on the agenda is), so please remain seated until the aircraft comes to a complete stop and the "Fasten Seat Belt" light goes off. Be inventive creating stops -

Bobcat Borough	Bear Valley
Tiger Trace	Webelos Woods
Wolf Den	Sportstown

*(Turn over seat belt sign to side that says "Thanks")*

Thank you for choosing Cub Scout Airways!

### Blast Off Into Scouting Heart of America Council

**Personnel:** Eight Cubs, Cubmaster (CM)

**Equipment:** Individual cards containing of eight letters. (First and last cards shaped such as to form space ship)

**Arrangement:** As each Cub Scout recites his lines, he holds his card high.

**CM:** We are going to assemble our rocket for a trip into space. We'd like you to join us.

**Cub # 1.** C is for courtesy in Cub Scouting and all through life.

**Cub # 2.** U stands for usefulness to our families and others.

**Cub # 3.** B stands for bravery in thoughts and deeds.

**Cub # 4.** S stands for safety in all we do.

**Cub # 5.** C stands for church - the one of your choice.

**Cub # 6.** O stands for the outdoors and the beauty of nature.

**Cub # 7.** U is for unity - in our den, in our pack, in our school, in our church - because in unity we are strong.

**Cub # 8.** T stands for the truth in all things.

**CM:** Now we are ready for blast off. Lead Audience in countdown: 5-4-3-2-1

**All Yell - "BLAST OFF"** *Rocket moves off stage.*

### Opening Thought

*Baltimore Area Council*

Would you like to ride in a starship or a planet hopper, to walk on the moon or float through space, or be part of a space station crew? We may be doing some of these things one day. We can't be sure, but one thing is certain, the world will need good men and women in the future. And we can be sure we will fill that need if we remember to follow the Cub Scout Promise. Let's give this some thought as we stand and say the Promise together.

### Let Us Be Thankful

*Baltimore Area Council*

The United States has much to be proud of. One of the many things we can be proud of is the fact that America was first on the moon where Old Glory was placed as evidence of this eventful day. This indeed is something for all of us to be proud of. As we all join together in the Pledge of Allegiance to our flag. Let us be thankful for the courageous astronauts of America who helped make it possible for our flag to be flown on the moon, too. Please rise now and join me in the Pledge of Allegiance.

## AUDIENCE PARTICIPATIONS

### Wings, Wheels, Rudders

*Catalina Council*

Divide audience into three parts. Assign each part a word and a response. Instruct them they are to say the response whenever they hear the word. Practice as you make assignments.

WHEELS	Turn hands like bike pedals, saying "Whrrr, whrrr"
WINGS	Move arms up and down, saying "Flap, flap"
RUDDERS	Hold hands together like a swimming fish, saying "Swish, swish"

Cub Scout Tommy was a real wheeler-dealer. He had some things with **WHEELS** and other things without **WHEELS**. He had things with **RUDDERS**, but even more without **RUDDERS**. Tommy was missing one thing—he didn't have anything with **WINGS**! **WHEELS** made things go; **RUDDERS** guided things in water; and **WINGS** were needed to fly. Tommy couldn't fly without **WINGS**.

Tommy fixed his bike **WHEELS** so he could ride to the river. He used a boat with a **RUDDER** to go fishing. He watched the birds fly with their **WINGS**, and wished he had **WINGS** to fly, too. One day, he found a real deal. He traded some of his things with **WHEELS** and some of his things that didn't have **WHEELS** and two things with **RUDDERS** for a very special plane that had **WINGS**. He was the happiest boy ever, for now he had something with **WINGS**, something with **WHEELS** and something with **RUDDERS**!

### A Space Adventure

*Heart of America Council*

Divide the audience in half and instruct each half - Assign each half a word and a response. Instruct them they are to say the response whenever they hear the word. Practice as you make assignments.

- ✓ **SPACE** say "Way out there" (point ahead, moving finger from left to right)
- ✓ **ASTRONAUTS** say "Onward and upward" (stand up and thrust arm toward sky)

In the whole universe, there's an enormous place, which we all call as **SPACE**. **ASTRONAUTS** spend many untold hours, Searching **SPACE** where mysteries unfold, They bring back dust and rocks galore. Each **ASTRONAUT** striving to always learn more. They circle around for days in **SPACE**, Keeping up a strenuous pace. Our country explored **SPACE** and then soon, Our **ASTRONAUTS** landed on the moon. Oh what a thrill as we witnessed the sight, **ASTRONAUTS** raised our flag on that first moon flight. Right out there in outer **SPACE**, upon the moon stands our flag. It stands just where the **ASTRONAUTS** left it. As a part in history they did play. One fact they discovered which won't please storywriters, is the moon is not made of green cheese. So remember when you see the Man-in-the-Moon in **SPACE**, **ASTRONAUTS** proved we can't eat him at noon. But now all of this is old, often

**ASTRONAUTS** go and stay in **SPACE**. **SPACE** travel, here and there, is easily done almost without a care.

### The Adventures Of Packman And The Cub

*Circle Ten Council*

Divide the room into four groups. Assign each part a word and a response. Instruct them they are to say the response whenever they hear the word. Practice as you make assignments.

<b>ROCKETS</b> –	Blast Off!
<b>ASTEROIDS</b> –	Look Out!
<b>PACKMAN</b> –	Battle Stations!
<b>CUB SCOUTS</b> –	Yippee!

**PACKMAN** and his **CUB SCOUT** friends were working on a fishing elective. They decided to go to Pluto and try their luck at ice fishing. After filing their Interplanetary Tour Permit, they climbed in the **ROCKET** and set course through the **ASTEROIDS** and the dark reaches of space. As they passed the moon, one of the **CUB SCOUTS** cut his finger. **PACKMAN** and the **CUB SCOUTS** used their first-aid training to fix him up.

As the **ROCKET** drew near the **ASTEROIDS**, **PACKMAN** pointed Mars out to the **CUB SCOUTS**. Suddenly, there was a loud crash! An **ASTEROID** had hit a booster **ROCKET**. **PACKMAN** bravely steered the **ROCKET** out of the **ASTEROID** belt and prepared the **CUB SCOUTS** for an emergency landing on Mars to fix the **ROCKET**. **PACKMAN** could tell they could not go on to Pluto, so **PACKMAN** and the **CUB SCOUTS** went fishing in the canals of Mars and repaired the **ROCKET**. So it was that **PACKMAN** and his **CUB SCOUTS** returned home with enough space carp for all of their families to eat.

## ADVANCEMENT CEREMONIES

### Weather Balloon Advancement

*Catalina Council*

**Personnel:** Cubmaster

**Material:**

1 Large Balloon for each rank to be awarded plus 1 extra

**Preparation:**

1. Write the name of cub to be advanced on Balloon.
2. Insert Badge in Balloon.
3. Blow the balloon up and tie.
4. Repeat for each Boy.
5. Write Happy Birthday on one extra balloon.

**Set Up:**

Place the balloons at the front on a table or have helpers hold so all can see the name on it.

**Script:**

Cubmaster: Once a family, for one of their children's birthdays, decided to have a family picnic up at Solitude in the mountains. (Display the balloon with Happy Birthday written on it.)

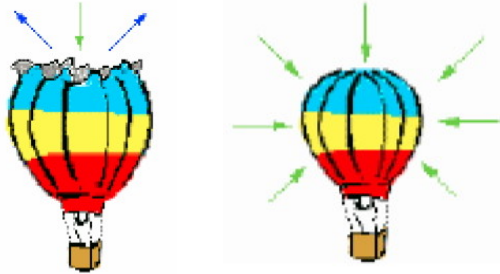
They decided to blow up some balloons and put them in the back of the van to take up to the mountains to decorate the picnic site. The balloons were blown up big.



They all piled into the van and drove up the mountain. Just before they got there, guess what happened? (Pop the "Happy Birthday" balloon)

They heard a big bang. What do you think happened? (Pause: If a cub answers, let him explain. If not, explain as follows...)

Imagine that a balloon is sealed so that no air can escape from it. As the altitude of the balloon increases, (exterior air pressure is indicated by the arrows going in, or the green arrows) the air pressure outside of the balloon decreases.



The amount of air in the balloon stays the same and therefore, so does the pressure that it exerts outward. (Interior air pressure is indicated by the arrows going out, or the blue arrows).

When the balloon reaches a height where the interior air pressure becomes greater than the exterior air pressure along with the pressure exerted by the balloon's skin, the balloon will burst. (Some of these words may need some explanation in order that the boys will understand.)

**Presentation:**

Cubmaster: "Weathermen use balloons to tell them what the weather is like at different heights in the sky. Each of you scouts is at a different place on your scouting trail."

Call out each boy and ask him to bring up his parents. Tell him that his weather balloon will show where he is on his path. If he would like, have him pop the balloon to discover his badge inside. Present his badge to parents to pin on their Cub Scout. Lead Cheer

**Flying Saucers Advancement**

*Catalina Council*

**Set Up:**

- ☺ You need several Frisbees.
- ☺ Tape rank badges, arrow points, and other awards to the Frisbees.

**Personnel:**

Have a leader who is good at sailing Frisbees stand some distance from the awards table, preferably behind the audience.

**Presentation:**

When the Cubmaster or a Webelos den leader has called forward boys and their parents to receive their badges, he then calls for the appropriate awards from "outer space." The assistant then sails a "flying saucer" to the front. Present awards to parents to present to sons. Lead cheers so that every boy is individually recognized

**Kite Advancement**

*Catalina Council*

**Set Up:**

Make a large diamond shaped kite out of paper and wooden sticks.

Decorate the kite with pictures of the Cub Scout badges drawn or painted on it.

Attach a wide ribbon on the kite for tail. Make the tail long enough to attach the badges to be awarded onto the ribbon. Suspend the kite (from the ceiling, tree branch (if outdoors) or some other way) and let the ribbon hang down.

Attach the badges onto the ribbon with pins, starting with the Bobcat Badge or Tiger Cub badge at the bottom of the ribbon and working up to the Webelos and Arrow of Light badges at the top.

**Presentation:**

As you call the boys and parents up to receive their badges, remove their badge from the ribbon. You can also snip off a piece of the ribbon as a memento.

**Take Flight**

*Baltimore Area Council*

**Cast:** Cubmaster, advancing Cubs, and their parents

**Props:** Pinhole planetarium punched for the Big Dipper and North Star

**Scene:** The lights are dimmed.

The Cubmaster beams the flashlight through the pinhole planetarium at the ceiling or a wall, showing the Big Dipper and North Star.

For thousands of years, men have known that the North Star is fixed. Through the ages pilots have used the North Star to navigate their airplanes. Even with complicated modern navigational equipment, the North Star still stands as a standard or sure guide in the night sky.

Cub Scouts also need a "guiding star" to help them through life. In Cub Scouting, our navigational aids are the Promise and the Law of the Pack. They tell us how we should act and what we should do for ourselves and for others. When we "do our best" we soar a little higher. When we do "our duty to God" we put God first and do what God wants us to do. When we do "our duty to country" we are proud to be an American and to be good citizens. As we "obey the Law of the Pack" we are better Cub Scouts.

These things steer us to greater heights, to grow into the kind of people that will be well liked and productive in our lives. Tonight we honor some Cub Scouts who are navigating straight and true on the Cub Scout trail. With their parent's help, they have advanced a rank and have shown that they live by the Promise and the Law. (Call the boys forward to receive their badges.)

**"Wingman" (Top Gun) Award***Baltimore Area Council*

**Uses:** Space Derby or Any Special Award or with adaptation any and all ranks

**Props:**

A 'Top Gun' poster, or model airplane, or some other special gift or award or certificate.

(Optional): Edited videotape of first five minutes of the movie 'Top Gun'.

**Instructions:** Show movie clip if you have one, or explain what happens in the first five minutes where Maverick rescues the pilot who has been badly shaken up and is flying off course.

**AKELA:** "Can anyone tell me what 'flying in fingertip formation' means? (Wait for response.) That is where the lead pilot is out in front like your middle finger (hold up your hand) and the other planes or 'wingmen' escort him by flying just behind on either side and then others just behind them, etc.

"The purpose of this formation is to help the lead plane complete its mission. His eyes are set on the target, and he is not supposed to have to worry about enemy aircraft sneaking up on him. The wingmen protect him by scanning the surrounding skies for danger, and engaging the enemy in combat, if necessary, to protect the lead plane and allow him to complete his mission and provide support. They help him stay on course. On other missions, the wingmen become the lead pilot and need wingmen of their own to complete their assignments.

"We have a lot of goals, or missions in life, and in order to succeed we need to have 'wingmen' or good friends who help us stay on course and protect us from the 'enemy'. We also have many occasions to be 'wingmen' for someone else who might be straying off course. We can gently guide them back into formation by providing support and alerting them of danger approaching.

"Some of the dangers you need to help your friends avoid are drugs, stealing, cheating, swearing, and other 'enemies' that will prevent them from completing their mission in life or throw them off course.

"Will (name \_\_\_\_\_) please come forward? Tonight, we present an award to an excellent 'wingman'. It is the TOP GUN 'WINGMAN' award. To be a Top Gun pilot is to be among the best in the world. Being the best does not always mean being the leader. In this case, being the best means being a great 'wingman'. Your devoted friendship has elevated you UP THERE WITH THE BEST OF THE BEST!!!"

Present award(s) to parents to present to boys the lead cheer.

**SONGS****Rocket Derby Song***Baltimore Area Council*

(Tune: Oklahoma!)

Robert Goddard;  
The father of modern rocketry,  
From his boyhood dreams, he built the schemes  
For a moon rocket of stages three.  
Kon-stan-tin Tsilokovsky  
Willie Prasthofer, Werner VonBraun,  
Herman Oberth, too, to name a few  
Of the men whose vision lives on.  
From these pioneers we have found  
Ways to launch men, soaring, from the ground.  
And now we say on rocket derby day,  
Good luck to all you rocket-racing Cub Scouts,  
Start the countdown, okay! 5-4-3-2-1-GO!

**The Wright Stuff***Baltimore Area Council*

(Tune: Edelweiss)

Wilbur Wright, Orville Wright  
Two who never stopped trying,  
When your dream first took wing  
You kept on 'til you were flying.  
From your start we've taken flight  
'Cross the skies so blue.  
When we keep our dreams in sight,  
We'll have the Wright stuff like you.

**The Astronaut's Plea***Baltimore Area Council*

(tune: My Bonnie Lies Over the Ocean)

I went for a ride in a spaceship  
The moon and the planets to see  
I went for a ride in a spaceship  
Now listen what happened to me.

**Chorus:**

Bring back, bring back,  
O bring back my spaceship to me, to me  
Bring back, bring back  
O bring back my spaceship to me.  
I went for a ride in a spaceship  
The capsule was crowded and I  
Developed a cramp in my muscles  
So I decided to walk in the sky.

**Chorus**

I went for a walk in my spacesuit.  
The ship was controlled from the ground.  
And someone in charge down at NASA  
Forgot I was walking around.

**Chorus**

**Go Fly A Kite**  
(Sung by Bing Crosby)

*Catalina Council*

Go fly a kite and tie your troubles to the tail  
They'll be blown away by a merry gale,  
Go fly a kite and toss your worries to the wind  
and they won't come back; they'll be too chagrined.  
Go on make friends with the sky. Have a talk with the sun  
It's the bright way to live, if you'll pardon the pun  
Go fly a kite and you'll imagine you're a king  
Cause you've got your world on a piece of string.

**My Kite**

*Catalina Council*

(Tune: Farmer in the Dell)

My kite is up so high,  
My kite is up so high,  
Oh my - - just watch it fly  
My kite is up so high.

My kite is falling down,  
My kite is falling down,  
Oh no - - it's down so low  
My kite is falling down.

The wind has caught my kite,  
The wind has caught my kite,  
What fun - - I'm on the run  
The wind has caught my kite.

My kite is up so high,  
My kite is up so high,  
Oh my - - just watch it fly  
My kite is up so high.

**Baloo Skies**

*Catalina Council*

(Tune: Caissons Go Rolling Along)

From the clouds to the ground  
Ba-loo Skies are all around  
As we study and look in the air  
Will it rain? Will it snow?  
Use your book and you will know  
Let's get going the day will be fair  
For rain, snow or sleet  
It's the fun of Cub Scouting  
Whatever the weather may be  
And when the sun is out  
We will always shout  
That Ba-loo skies will follow our Cubs  
That Ba-loo skies will follow our Cubs

**Zoom On By**

*Utah National Parks Council*

Tune "If you're happy and you know it"

If you're gonna be a pilot, Zoom on by.  
If you're gonna be a pilot, Zoom on by.  
If you're gonna be a pilot,  
then your zooms are gonna show it. '  
If you're gonna be a pilot, Zoom on by.

**We Were Soaring Through The Skies One Day**

*Catalina Council*

(Tune: We Were Strolling Through The Park One Day)

We were soaring through the skies one day  
Going with our den to play.  
We were taken by surprise  
By a set of hairy eyes  
While soaring through the skies one day.  
As we tried to turn our ship around,  
A yellow fuzzy thing we found;  
He was riding on our wings  
Doing crazy, silly things  
While soaring through the skies one day.  
He was short and fat and tall and thin,  
So we stopped to let the creature in.  
He said, "I want to be your friend,"  
So we put him in our den  
While soaring through the skies one day.

**Airplane's The Greatest**

*Utah National Parks Council*

Tune: The more we get together

The aro-plane's the greatest  
The greatest, the greatest.  
The aro-plane's the greatest  
For us cubs tonight!  
For my plane and your plane,  
And his plane and all planes,  
The aro-plane's the greatest,  
For us cubs tonight!  
(Repeat 3 times)

*Try this one as a round.*

*Have different groups starting at each number)*

**Fly, Fly Those Planes**

*Utah National Parks Council*

Tune: "Row, row, row your boat"

Fly, fly, fly a balloon  
Fly it slowly there  
Seeing all the pretty sights  
That are out tonight.  
Fly, fly, fly a plane  
It's really lots of fun  
Gliding high up in the sky  
Just see that setting sun!

*Try this one as a round.*

*Have different groups starting at each number)*

**Kite Derby Song**

*Grand Teton Council*

Tune: She'll be Coming Round the Mountain

We will fly our home-made paper kites tonight,  
We have learned to cut and fold and glue just right.  
We'll be proud to see them flying,  
but if not we won't be crying,  
'Cause it really is the Cub Scouts taking flight.  
Anyone can buy a plastic kite, alright,  
Make it fly until it's almost out of sight,  
But a kite you make with your son will always  
be much more fun,  
When you see that it's the Cub Scout taking flight

**Taking Flight***Grand Teton Council*

Tune: US Air Force

Taking Flight! Cub Scouts in Blue and Golden,  
Webelos and Tigers, too.

To the air, kites that are glued and folded;  
showing off what we can do.

Here we go, flying our discs and saucers,  
paper planes and helos, too.

We're having fun, in rain or sun,  
flying our home-made aerial zoo.

We'll have fun making our own neat fly toys,  
fold and cut till they are done.

Then we'll do just like the real "fly boys,"  
launch 'em boys and give her the gun.

You can see that there is much excitement  
when we are all having fun.

When Cubs and Moms and Dads take flight,  
Scouting is helping our fam'lies be one.

**We are Cub Scouts Taking Flight***Grand Teton Council*

Tune: Clementine

We are Cub Scouts taking flight with helicopter  
and paper plane.

Fold 'em, glue 'em, then pursue 'em through  
the fields in sun and rain.

We'll have fun while we are flying all the things  
we make ourselves

Then we'll clean up, fix the scene up, put stuff  
back upon the shelves.

Come pack meeting we'll be greeting fellow  
Cubs and fam'lies, too,

With our planes, and kites, and 'copters,  
our whole paper aerial zoo.

It's not boring, no one's snoring when we're  
showing off tonight,

Our hearts and minds are soaring; we are  
Cub Scouts taking flight.

**The Flying Birds***Catalina Council*

(Tune: The Flying Trapeze)

They fly through the air with the greatest of ease.  
Those big flocks of pigeons and gulls from the seas.  
No dog on the ground or big snakes in the trees,  
can fly high like the ducks and the geese.

I once had a duck, and that duck's name was Phil.  
One morning he woke with a terrible chill.

The dew was too heavy, he drowned on the hill,  
Yes, he died from an over dew bill.

Once just for a joke me and Tim, my big brother,  
Caught fifteen wild geese who were downed by the weather.

We poured on some glue, and found birds of a feather,  
In fact really do stick together.

Oh cows have no feathers, and zebras can't fly.  
And aardvarks and beavers can't zoom through the sky.

And I can't take off although I always try,  
I guess I'll be an earth bound guy.

**Found a Planet***Catalina Council*

(Tune: Found a Peanut)

**Chorus** Found a planet, found a planet,  
Found a planet just now.  
Just now I found a planet,  
Found a planet, just now.

**Verse 1** It was Mercury, it was Mercury,  
It was Mercury, I found.  
It was so hot, I got sun spots,  
So I'm headed spaceward bound.

**Chorus**

**Verse 2** It was Venus, it was Venus,  
It was Venus, that I found.  
She's a greeny, really keeny,  
So I'm headed spaceward bound.

**Chorus**

**Verse 3** It was Earth, it was Earth,  
It was Earth, I finally found.  
Life was teeming, gave me meaning,  
So I headed spaceward bound.

**Chorus**

**Verse 4** It was Mars, it was Mars,  
It was Mars, that I found.  
Red as blood, no water for mud,  
So I'm headed spaceward bound.

**Chorus**

**Verse 5** It was Jupiter, it was Jupiter,  
It was Jupiter, I found.  
I seemed so teeny, biggest thing I've ever seeny,  
So I'm headed spaceward bound.

**Chorus**

**Verse 6** It was Saturn, it was Saturn,  
It was Saturn, that I found.  
Amazing things, these big ol' rings,  
So I'm headed spaceward bound.

**Chorus**

**Verse 7** It was Uranus, it was Uranus,  
It was Uranus, I found.  
What met my gaze, it's spinning sideways,  
So I'm headed spaceward bound.

**Chorus**

**Verse 8** It was Neptune, it was Neptune,  
It was Neptune, that I found.  
Blue as oceans, lam-a-goshens!  
So I'm headed spaceward bound.

**Chorus**

**Verse 9** It was Pluto, it was Pluto,  
It was Pluto, that I found.  
Thought I was bold, caught a head cold,  
So I headed spaceward bound.

**Chorus**

**Verse 10.** (*switch to the tune of "The Air Force Song"*)  
Off I go, into the wild black yonder...



**My Boomerang Won't Come Back***Grand Teton Council*

Hear it on You Tube -

<http://www.youtube.com/watch?v=prtj4MtDU>*I remember buying the 45 when it came out. My parents couldn't believe I really wanted it!!! CD*

(Oom-yacka-wurka, oom-yacka-wurka, oom-yacka-wurka)

**Narrator -**

In the bad backlands of Australia

Many years ago,

The aborigine tribes were meeting,

Having a big pow-wow.

(Oom-yacka-wurka, oom-yacka-wurka)

"We got a lot of trouble, Chief,

On account of your son Mack."

"My boy Mack? Why, what's wrong with him?"

**Lead Singer (Mack)**

My boomerang won't come back.

**Other singers**

"Your boomerang won't come back?"

**Lead Singer (Mack)**

My boomerang won't come back,

My boomerang won't come back,

I've waved the thing all over the place,

Practised till I was blue in the face,

I'm a big disgrace to the Aborigine race,

My boomerang won't come back.

I can ride a kangaroo (yeah yeah)

Make kinkajou stew (yeah yeah)

But I'm a big disgrace to the Aborigine race,

My boomerang won't come back.

**Other singers**

They banished him from the tribe then

And sent him on his way,

He had a backless boomerang

So here he could not stay.

(Animal noises)

**Lead Singer (Mack)**

[Spoken] This is nice, innit?

Getting banished at my time of life.

What a way to spend an evening:

sitting on a rock in the middle of the desert with me  
boomerang in me hand.

I shall very likely get bushwhacked.

(An animal roars; Drake shrieks back.)

Get out of it! You nasty bushwhacking animal.

Think I'll make a nice cup of tea.

(Doing, doing, doing...)

Good gracious! There goes a kangaroo.

I must have a practice with me boomerang:

hit him right behind the left earhole.

Now then, slowly back.

**Gruff kangaroo voice:**

If you throw that thing at me,

I'll jump right on your head.

(It chuckles and bounces away.)

**Lead Singer (Mack)**

Innit marvellous?

Got a land full of kangaroos and I had to pick that one.

**Other singers**

For three long months he sat there

Or maybe it was four,

Then an old old man in a kangaroo skin

Came a-knocking at his door.

**Witch Doctor**

"Well, I'm the local witch doctor, son,

They call me George Alfred Black.

Now tell me, what's your trouble, boy?"

**Lead Singer (Mack)**

My boomerang won't come back.

**Witch Doctor**

"Your boomerang won't come back?"

**Lead Singer (Mack)**

My boomerang won't come back,

My boomerang won't come back,

I've waved the thing all over the place,

Practised till I was blue in the face,

I'm a big disgrace to the Aborigine race,

My boomerang won't come back.

**Witch Doctor**

"Don't worry, boy, I know the trick,

And to you I'm gonna show it.

If you want your boomerang to come back,

Well first you've got to... throw it."

**Lead Singer (Mack)**

Ooh, yes! Never thought of that.

Daddy will be pleased. Must have a go, nyuh-huh!

Excuse me.

Now then, slowly back... and throw.

(Boomerang whizzes away; Sounds of a plane approaching  
and then falling from the sky.)

Ooh my God! I've hit the flying doctor.

Eee-hee-hee! Can you do first aid?"

**Witch Doctor:**

Don't talk to me about first aid, boy,

you owe me fourteen chickens, you know,

when I learned you to throw the boomerang,

you know, first things first.

**Lead Singer (Mack)**

Yes, I know that, but I mean,

I think on this occasion, you know,

you could be a bit more perspective.....

**STUNTS AND APPLAUSES****APPLAUSES & CHEERS***Catalina Council***Blast Off I -**

Everyone squats down in front of their chairs,

Start a countdown "10-9-8-7-6-5-4-3-2-1 Blast off!"

At blast off, everyone jumps up as high as they can,

roaring like a missile.

**Blast Off II**

Count down "10-9-8-7-6-5-4-3-2-1 Blast off."

Then, blast off with your hand, gain orbit, and

Say "Beep-beep-beep-beep."

**Blast Off Cheer III (Baltimore Area Council)**

Count down from 10 to 1 and yell, "Blast off." Nothing

happens. Say "Oh well, back to the drawing board."

**Blast Off IV**

Count down "10-9-8-7-6-5-4-3-2-1 Blast off."

Yell **ZOOOMM** while throwing arm up into the air  
Then yell POW! (*Make up arms motions for the POW, OOOOhh and AAAAAhh*)

Next OOOOOhhh as you look at firework pattern  
Finally, AAAAAhh, as you continue to look

*Grand Teton Council*

**Countdown:** Count down from 5, bending the knees to finally end up crouched down. After "zero" comes "Blast Off", when everyone jumps up and raises hands high in the air.

**Air Force:** Stretch arms out like wings. As you sway from side to side, sing "off we go into the wild blue yonder."  
**"Up up and awayyyy"** Move outstretched index finger in circular motion at about waist height on the "up up and" portion, and stab it high up over your head on the "awayyyy" part.

**Super Cub Scout:** Shade your eyes with your hand as you look up into the sky, to the right, yelling "is it a bird?", then to the left "is it a plane?", then forward "no, it's Super Cub Scout", as you raise your fist high.

**Charlie Brown:** Make motions as if controlling a kite, yelling "fly kite fly". Then slap both hands against your cheeks in horror and yell "good grief, the tree ate it".

**Oom-a-latta, boom-a-swatta**

"Oom-a-latta boom-a-swatta;  
left, center, right;  
Tigers, Wolves, Bears,  
Webelos all take flight."

Slap thighs during the first part; clap hands turning in the indicated direction during the second part; point at the respective dens during the third part; raise hands high above the head for "all take flight."

The third part can be modified for packs that don't sponsor Tiger dens: "Wolf Cubs, Bear Cubs, Webelos."

**Birds Fly High**

The leader divides the audience into three groups, roosters, ducks, and crows. Everyone is an Eagle.  
Leader points at the first and yells, "crow like a rooster."  
The group responds with a rooster's cock-a-doodle-doo.  
He points at the second group and yells, "quack like a duck."  
The group responds with a duck's quacking.  
He points at the third group and yells, "caw like a crow."  
The group responds with a crow's cawing.  
Then the leader raises both arms like wings and yells, "fly like an eagle." Whereupon the whole audience stretches out their arms and turn 360 degrees, saying 'whoooooosh.'

*Baltimore Area Council*

**Satellite Cheer**

Put your right hand over your head, make a circular motion with the right hand, then open and close the right fist, while saying "Gleep, gleep, gleep."

**Variation:** Begin with a countdown from 10, at zero, yell, "BLASTOFF!" then stretch arm over head saying "Gleep, Gleep, Gleep" and turn around three times.

**Soaring Kite Cheer**

Hold out arm as if holding onto a kite string. Say: "Hold on, she's soaring higher and higher".

**Jet Plane Applause**

Hold palm of right hand straight and move in sweeping motion from right to left, then give a good loud "zoom" with each action.

**Ben Franklin Cheer**

Hold both hands out in front of you as if flying a kite. Jerk back suddenly while saying, "Zap, Zap, Zap."

**UFO Cheer**

Have group look up, shade eyes with one hand, point with the other and yell "Look, it's a UFO!" Have them turn heads as if the object is moving.

*Utah National Parks Council*

**AIRPLANE APPLAUSE**

With hands together push one hand fast toward the sky while saying: Zoom! Up, up and away.

**HELICOPTER APPLAUSE**

Whirl hands over the top of your head while repeating swish, swish, swish.

**SONIC BOOM APPLAUSE**

Open mouth and move hands but say nothing then a couple of seconds later yell, "Boom!"

**PARACHUTE APPLAUSE**

Pretend to strap parachute onto back. Then stand on chair- and repeat "'1, 2, 3, Geronimo!'" Jump off chair.

**AIR PRESSURE CHEER**

Put hands to mouth and pretend to blow up a balloon. As you blow, expand hands and then fling them out with a big BANG"! .

**JET APPLAUSE**

Hold palm of right hand straight and move in swooping motion from right to left, back to right and then to left. Give a good loud Zoom with each motion.

**RUN-ONS**

*Catalina Council*

Cub #1: What monster flies his kite in a rainstorm?

Cub #2: Benjamin Frankenstein.

Cub #1: What's the purpose of the propeller on a plane?

Cub #2: To keep the pilot cool. If you don't think so, just stop it and watch him sweat!

Instructor: We all know what a "good landing" is.

Student: One that you can walk away from.

Instructor: Do you know what a "great landing" is?

Student: One where you can use the airplane again!

Cessna: Jones Tower, Cessna 12345, student pilot, I am out of fuel.

Tower: Roger, Cessna 12345, reduce airspeed to best glide! Do you have the airfield in sight?

Cessna: Uh, tower, I am on the south ramp; I just want to know where the fuel truck is.

Cub #1: Where does a bird go when it loses its tail?

Cub #2: To the retail store.

Cub #1: What goes up when the rain comes down?

Cub #2: Umbrellas.

Cub #1: What is up in the sky but is not a cloud or a plane or a man?

Cub #2: The sun.

*Utah National Parks Council*

- 1st Cub: (pointing at the sky) is that a jet or a plane up there?  
 2nd Cub: I don't know, I'm a stranger here myself.  
 1<sup>st</sup> Cub: What do you call an alien that rides first class on an airplane?  
 2<sup>nd</sup> Cub: A Passenger!  
 Ike: Why did St. Patrick drive the snakes out of Ireland?  
 Mike: He couldn't afford plane fare.  
 1st Cub: I'd like to have enough money to buy ten jet airplanes.  
 2nd Cub: What would you do with ten jets?  
 1st Cub: Hey, I don't want the jets, I'd just like to have the money.  
 1st Cub: My grandmother came to visit for her vacation.  
 2nd Cub: Did you meet her at the airport?  
 1st Cub: Goodness no. I've known her all my life!  
 1st Cub: What kind of monkey flies?  
 2nd Cub: What?  
 1st Cub: A hot-air baboon.

**JOKES & RIDDLES***Grand Teton Council*

- Cub #1: How many balls of string would it take to reach the moon?  
 Cub #2: One, if it were long enough!  
 Cub #1: What do astronauts eat off?  
 Cub #2: Flying saucers.  
 Cub #1: What is an astronaut's favorite meal?  
 Cub #2: Launch.  
 Cub #1: How do you put an astronaut to sleep?  
 Cub #2: You rock-et.

*Alice, Golden Empire Council*

- Q: What bird is always out of breath?  
 A: A puffin.  
 Q: Why do Hummingbirds hum?  
 A: They've never learned the words!  
 Q: What is a mosquito's favorite sport?  
 A: Skin-diving.  
 Q: What's smarter than a hummingbird?  
 A: A spelling bee!  
 Q: Why did it take the elephant so long to get on the airplane?  
 A: Because he had to check his trunk!  
 Q: When do ducks fly upside down?  
 A: When they "Quack Up!"

**SKITS****Short Runway**  
*Catalina Council***Cast:**

At least 3 Cubs (1 pilot, 1 co-pilot, narrator) and as many passengers as you want

**Props:**

Seats for pilot, co-pilot, passengers, and a compass

**Setting:**

Cubs sitting in an "airplane", passengers make sound effects

**Action:**

**Narrator:** We are on board a very low budget airline.

**Pilot:** Are we anywhere near the airport, co-pilot?

**Co-pilot:** (Peering out the window) I don't know...I see lights over there to the port.

That's likely it. Bring 'er around and have a look.

**Pilot:** (Lurching the plane hard to the left) Boy, I can't tell. I wish the company would buy us some instruments.

**Co-pilot:** (Pulling compass from pocket) Oh, I've got my trusty compass and the sun went down about 20 minutes ago, so we've got to be on course. (Excited!) Look, see that spot down there, that must be it!

**Pilot:** Okay, here we go. Give me 20 degrees flaps, I'm going in (Puts plane into a nose dive, sound effects)

**Co-pilot:** (Appropriate actions and sounds, acting panicky)

**Pilot:** QUICK, cut the engines, give me brakes. MORE BRAKES!

**Both:** (Sighs of relief) We're down, we made it!

**Pilot:** Boy, was that a short runway!

**Co-pilot:** (Looking right, then left) Yep, and wide too!!

**Flying Lesson***Catalina Council***Scene:**

Student pilot and instructor are on a dual night cross-country flight. Instructor wants to test student on his night flying.

**Instructor:** (Turns down the panel lights) OK, you've just lost your lights, what are you going to do?

**Student:** (Pulls out a flashlight) I'd get out my flashlight.

**Instructor:** The batteries are dead, now what are you going to do?

**Student:** (Pulls out another flashlight) I'd get out my other flashlight.

**Instructor:** (Grabs the flashlight) The bulb is burned out on this one, now what?

**Student:** (Pulls out a third flashlight) I use this flashlight.

**Instructor:** (Instructor grabs this light too) ALL your flashlights are dead, now what?

**Student:** I use this glow stick.

**Instructor:** Sighhhhhhh, just fly the plane without any lights, OK?

**Plane Engine Trouble Skit #1***Catalina Council***Required:**

- 3 or more scouts chairs for each
- Can lid or something to make a crash sound.

**Preparation:**

- Line chairs up to create an airplane seating layout.
- Have the pilot in front.
- All scouts come in and sit down.

**Play:**

**Pilot:** Welcome to flight 93. We have reached our cruising altitude of 30,000 feet. Please relax and enjoy the ride. We should arrive in approximately 2 hours.

*(Pause)**(Pilot hits lid to make crash sound.)**(All passengers look around confused and frightened.)*

**Pilot:** Some of you may have noticed a slight disturbance. That was our #4 engine. It had a malfunction and is not working. Please do not be alarmed, we will still make the trip but it will now take 3 hours.

*(Passengers complain a little and look disappointed.)**(pause)**(Pilot hits lid to make crash sound.)**(All passengers look around confused and frightened.)*

**Pilot:** Don't be worried, everyone. That was our #3 engine. The fuel line broke. We'll still make the trip but it will now take 5 hours.

*(Passengers complain a little and look disappointed.)**(pause)**(Pilot hits lid to make crash sound.)**(All passengers look around confused and frightened.)*

**Pilot:** Sorry, a little more bad news. That was our #2 engine. A seagull ran into it and it's offline. I'm afraid our trip will now take 7 hours.

*(Passengers complain a little and look disappointed.)**(pause)**(Pilot hits lid to make crash sound.)**(All passengers look around confused and frightened.)*

**Pilot:** (in a panicked voice)

**PEOPLE, THAT WAS OUR #1 ENGINE!**

**Passenger:** Oh Great! Now we're gonna be stuck up here all day!

**Plane Engine Trouble Skit #2***Baltimore Area Council***Cast:**

- ☉ Three Scouts act as pilot, co-pilot, and radioman on an airliner.
- ☉ Four other Scouts are on the wings of the plane as the engines.

**Play:**

1. The pilot announces to the co-pilot that engine one has failed.
2. Engine one (ham this up) sputters, makes noise and dies.

3. Co-pilot instructs radioman to inform tower and tells them they will be arriving 15 minutes late (radioman radios tower and repeats message).
4. Soon after engine two fails, repeat the process again but this time tell the tower they will be 30 minutes late.
5. Then engine three fails and with more panic tells the tower we will be one hour late.
6. Finally the pilot announces the fourth and final engine has failed.
7. The radioman then says: "Boys I'd better radio the tower, we may be up here all day!"

**CLOSING CEREMONIES****Space Shuttle Closing***Circle Ten Council*

The word CUBS is spelled out on a poster board replica of a space shuttle. "Fanfare of the Common Man" by Aaron Copeland or similar music is played in the background. A flashlight or other light lights each letter as it is shown. Parts may be read by Cubs (preferably) or adults.

- Cub 1** "C" stands for catch. Catch the spirit of Scouting and you're starting the countdown.
- Cub 2** "U" stands for unite. When we unite, we see how much we can do and how important teamwork really is.
- Cub 3** "B" stands for balance. In Scouting, the hard work that we do can be fun. As a Scout, work and fun are balanced.
- Cub 4** "S" stands for straight. The Cub Scout Promise and the Law of the Pack remind us that if our arrow is true, we may cross the bridge and become Boy Scouts.
- Cub 5** Together these letters form the vehicle that will transport us to the outer limits of Scouting in hopes of one day being able to say those well-earned words, "Another Eagle Has Landed."

**Cubmaster's Minutes****Courage***Utah National Parks Council*

This month our character connection was COURAGE. It took a lot of courage for the Wright Brothers to make the first airplane then try to fly it off that hill in Kitty Hawk, North Carolina.

It also takes a lot of courage for Cub Scouts to stand up for what they believe in, although the world may think something different. With these closing words may you all have this kind of courage each and every day of your lives.

**Tracks on the Moon***Baltimore Area Council*

Over forty years ago, man first set foot on the moon. That first footprint of astronaut and Eagle Scout Neil Armstrong is still there on the moon, preserved in the lunar dust where no wind will blow it away. Other footprints are there, too; Gene Cernan, Alan Bean, Buzz Aldrin, Edgar Mitchell, Alan Shepard, and others who also explored the lunar surface. Here on earth we can't literally see our footprints forever, but



what we do where our feet carry us is preserved. Every kind deed is remembered and has a lasting effect on those around us. Every hurtful word has a lasting effect as well. Let's decide to choose our words and our deeds as carefully as if they were to be recorded forever like the footsteps on the moon.

**Frank Borman's Prayer**  
*Baltimore Area Council*

**Scene:**

Ask the Cub Scouts to form a large circle with parents behind them.

**Ceremony:**

The "crew chief" reads the following prayer, which was broadcast to earth by astronaut Frank Borman while on a moon-orbiting mission in 1968:

"Give us, O God, the vision which can see thy love of the world in spite of human failure. Give us faith to trust Thy goodness in spite of our ignorance and weakness. Give us the knowledge that we may continue to pray with understanding hearts, and show us what each of us can do to set forward the coming of universal peace." Amen.

**Taking Flight**  
*Baltimore Area Council*

*If outside let a helium balloon go.*

As we watch this balloon rise in the air we can relate it to a boy. The boys are with us today, but one of these days parents and leaders will "let go" of the "strings" they hold on to and the boys will leave home to venture out on their own. They will take flight to be the leaders of tomorrow. How you boys prepare for that day will determine what the experience will be like. As parents and leaders we hope it will be as natural as this balloon that floats into the air rising higher and higher to new highs.

**Reach for the Stars**  
*Grand Teton Council*

Col. Edwin 'Buzz' Aldrin, the second man to walk on the moon, told a group of Eagle Scouts that man's exploration of space is as old as man himself. He has explored, conquered, and studied the secrets of the jungles, mountains and oceans. He urged them to obtain a well-rounded background in many fields of knowledge, then to select one field and strive for excellence in it. "Set your goals high and settle for nothing less than accomplishment," he said.

**Aim for the Stars**  
*Grand Teton Council*

The words, "Aim for the Stars" have an important meaning to Cub Scouts. Think of Thomas Edison who tried and failed hundreds of times before he perfected the electric light bulb. He never quit trying. A Cub Scout, who tries to do his best and keeps trying, is preparing himself for greater responsibilities when he becomes a man. What you do and how well you do it becomes your launching pad to "Aim for the Stars."

**Children Are Like Kites**

*Grand Teton Council*

You spend years trying to get them off the ground.  
You run with them until you are both breathless.  
They crash ... they hit the roof ... you patch, comfort and assure them that someday they will fly.  
Finally, they are airborne.  
They need more string, and you keep letting it out.  
They tug, and with each twist of the twine, there is sadness that goes with joy.  
The kite becomes more distant, and you know it won't be long before that beautiful creature will snap the lifeline that binds you together and will soar as meant to soar ... free and alone.  
Only then do you know that you have done your job.

**THEME RELATED STUFF**

**Kite Flying Safety:**

*Grand Teton Council*

- ★ Always follow safe practices while flying a kite.
- ★ Always fly a kite far from electric or power lines, transmission towers, TV and radio antennas, and ponds.
- ★ Fly a kite on days when there is no rain. Never fly a kite in a thunderstorm.
- ★ Use wood, fabric, paper, or plastic in the kite. Never use metal in making a kite.
- ★ Always use dry string. Never use wire for a kite line.
- ★ When flying a kite, avoid public streets, highways, or railroad rights-of-way.
- ★ If your kite gets snagged in a power line, treetop, roof, or on a high pole, never try to remove it.

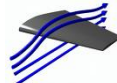
**Fun Facts About Flight**

*Alice, Golden Empire Council*

An airplane takes off or lands every 37 seconds from Chicago's O'Hare International Airport. That's almost 100 planes per hour! Want to see how your airport stacks up? Check

[www.aviationexplorer.com/the\\_busiest\\_airports\\_in\\_the\\_usa.htm](http://www.aviationexplorer.com/the_busiest_airports_in_the_usa.htm)

It is the shape of the wing that allows a plane to fly.



The "bulge at the top of the front splits the air into two streams. Because the air passing over the top of the wing "bulge" has to travel farther, it is forced to move faster than the air traveling along the straight bottom of the wing.

At any given hour, about 61,000 people are in the air over the United States.

Bats are the only mammals that can fly.

The speed of sound, or Mach 1, at sea level is 761.2 miles per hour – but pilots speak in "knots" - or 661.5 knots.

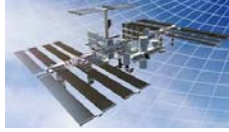
You could take a plane ride for \$5 in the 1920's – but many people were afraid of this "new technology."

Without the aileron, on the rear of each wing, a plane could not turn at all!

The longest paper airplane flight was 27.6 seconds. (Check out some great patterns for paper airplanes at

One paper helicopter, called the “Little Wonder,” flew from the 31st floor in one piece.

Sputnik, the first man-made satellite, was sent up by Russia and was only the size of a basketball!



The International Space Station will be larger than 24 basketball COURTS when it's finished!

An orbit is really just a controlled fall! Once a satellite is launched into orbit, the force of gravity tends to pull it toward the Earth. But by moving fast enough, it falls in a curved path and circles the Earth. If a satellite doesn't move fast enough it will be caught by gravity and burn up in the earth's atmosphere.

Those famous “black boxes” that are plane crash investigators always search for are really orange!



Two French brothers named Montgolfier made the first successful human flight in a hot air balloon in 1783. They filled a huge linen and paper balloon with hot air and sent two friends into the sky above Paris. It traveled about 5 miles. The hot air was created by burning wood and straw! The longest time spent airborne during a single hot-air balloon flight is 19 days, 21 hours and 47 minutes.



Otto Lilienthal built and flew a series of small hang gliders in the 1890's. The German engineer made 2,500 flights, or controlled glides – and some consider him the first Aviator.



The glider has a long wing shaped like an airfoil for lift. It can only fly as long as the pilot finds currents of warm air, called thermals, to ride –birds use these same currents to glide without flapping their wings. That famous aircraft landing in the Hudson last year was due to the training and experience that the pilot “Scully” Scullenberger had with flying gliders!

Modern planes use the same principles of thrust and lift to combat drag and gravity that the Wright brothers used!



Jet planes use fuel burned at high pressure and mixed with air to compress gases and force them out the back of a “tube” at high speed to create forward thrust.

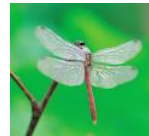


Rockets fly by using the thrust or force of high pressure combustion gas being ejected outward and down. Fuel burning in the combustion chamber needs oxygen to burn, so rockets traveling into outer space must make their own! An oxidizer is used to create oxygen. Engineers have also learned to use a trumpet shape to eject the gas at a higher speed and create enough thrust to travel into space.

Take Flight – and NOT Man-made!



Birds have a wing shaped like an airfoil, to create lift when a bird flaps its wings. The wing pushes air down, and the opposing force of air creates lift. Birds with long pointed wings can fly quickly and travel long distances. Birds with short, rounded wings can take off more quickly and maneuver better through the air, but don't have the distance capability.



Dragonflies can fly backwards, forwards, change direction in midair, and hover for up to a minute. They can reach 35 miles an hour! They have four wings. We don't know exactly how they fly, but they may create whirlwinds of air by twisting their wings on the downstroke to get lift.



Hummingbirds fly with their hands! Unlike other birds, they have very short upper arm and forearm bones, and the “wrist” joints can't move. But the shoulder joint can move in all directions and rotate about 180 degrees! Hummingbirds don't flap their wings! Also, they fly with their bodies upright, not like most birds. Their unique wing shape allows them to hover.



Bumble Bee work on the same principle as helicopter blades—which generates a lot more lift than a fixed wing. The real challenge with bees wasn't figuring out the aerodynamics but the mechanics: how bees can move their wings so fast. The move at about 200 beats per second! But the trick is that the bee's wing muscles don't expand and contract, but rather vibrate like a guitar string! And that buzzing you hear isn't the sound of the wings moving – it's the sound made by the vibration of their powerful flight muscles! Want to learn more? Go to:

[www.dandydesigns.org/id44.html](http://www.dandydesigns.org/id44.html)



Katydid can fly, but it is really more of a downward flutter. Most species prefer to walk, and will walk to a nearby tree when they land on the ground. Their front wings have special organs that create sound.



Flying Squirrels are really "gliders" who can control the tautness of a membrane that stretches from wrist to ankle and acts like a parachute. They can't sustain flight, but they can glide about 90 meters! Their tail acts like a stabilizer and an air brake. Only some species can glide and they are nocturnal. And did you know that some possums can also "fly?"

Now see if you can discover some other animals that fly or glide! And see if you can match up animal or bird "flight" with man-made flying inventions.

### World Records

#### Grand Teton Council

- ★ Longest Flight by a Paper Airplane: Ken Blackburn flew a paper plane for 27.6 sec. at the Georgia Dome, Atlanta, on Oct 8, 1998.
- ★ Longest Kite Flown: On Nov. 18, 1990, Michel Trouillet flew a 3,394-ft. long kite at Nimes, France.
- ★ Biggest Kite Flown: The largest kite ever flown is the Megabyte, which is 210 ft. long (including tails) and 72 ft. wide, Designed by Peter Lynn of New Zealand. It was flown for min. 57 sec. at the Bristol Kite Festival, England on Sept. 7, 1997.

## TIGERS

### Tiger Cub Fire Safety Training

*Amanda, Tiger Cub Den Leader*

**Requirement, 3Fa** - With your family, plan a fire drill and then practice it in your home

*A hands on approach using limited resources that keeps everyone safe.*

1. In a large room use masking tape on the floor to outline a house and rooms.
2. Tour the outlined house with the Tigers and mark the window and door locations with a different color tape. Outline where large appliances are located in each room.
3. Discuss how a room can be used for fire safety and its potential fire hazards.
4. After the initial tour talk about fire safety plans and how to leave a house in case of a fire.
5. Then play a fire safety game.
6. Ask each Tiger to pick a room and sit in it and close his eyes.
7. The Adult Partner place a different color cones in a few locations inside the house. Red for fire, Yellow for smoke.

8. On signal, the Tigers open their eyes and escape safely from the situation they encountered. Do this several times.
9. Have the tigers talk about how they did.
10. Then have the Tigers place the cones while the Adult Partners sit in the house.
11. Have the Tigers evaluate how the adult partners did.

*Amanda says this was fun and a great hands on learning experience and economical.*

*Greater St. Louis Area Council*

Construction can include a great many things, some are building skyscraper or a kite. Another is construction of the mind, an example might be building their skills. Through Cubstruction we can teach them to build a bird house and their skills.

### High-Flying Kite

#### Supplies:

- One 1/8" dowel rod, 48" long
- Ball of strong string
- Wrapping paper
- Paper reinforcers
- Strips of light weight fabric
- Hobby Knife Scissors Pencil
- Ruler
- White glue, paste, glue stick or tape

#### Directions

1. Cut the stick to size, then notch ends(watch that your notches all face the same way – One should be 26" and the other 22"
2. Mark the 26" dowel 7 1/2" from the top. Mark the other in the middle
3. Tie the two stick together at the marks. Secure them tightly
4. String the outside edge of the kite frame, slipping the string through the notches at the ends of the rods. This is why the notched need to face the same way. Secure the string tightly around the outside edge.
5. Use the kite frame for making a pattern on the paper. Leaving about an inch on each side.
6. Trim the paper and cut off the corners
7. Fold the paper of the strings and secure with tape or glue
8. Punch two holes in the paper. One 3" from the top and 4" from the bottom of the stick along the center rod. Put paper reinforcers on both sides of the holes to prevent ripping
9. Cut a piece of string 30" long and secure to the long rod through the holes you made.
10. Cut a piece of string; tie off at each end of the short rod leaving a gap of 4" between the string and the shorter rod. This will cause the kite to bend.
11. Make a tail using the strips of fabric. I would make the tail 12-18" long. Tie shorter strips down the tail about every 3-4 inches. This will stabilize the kite.
12. Wind a lot of string to a pencil or Popsicle stick. Tie the end of the string about a third of the way down the string you attached to the kite.
13. Find a big open space and let 'em run. See who's kite will fly the longest, the highest or even the shortest.

### Design, Layout And Construct Your Own Water Park Supplies

Construction or plain paper  
Rulers  
Pencils  
Food Coloring  
CLEAR, Bendable straws (straight straws can work too, just not as well)  
Modeling Clay  
Styrofoam or paper cups

#### Directions

1. First draw out on the paper the layout of your water park. You can include pools, slides and maybe even a fountain. Be sure to have a specific starting point, usually higher than the rest. This will be your blueprint.
2. Figure how many cups and straws you will need to build your project. Also grab about  $\frac{1}{2}$  a stick of modeling clay. These items will be your building materials.
3. You will need a large area, preferably outside, weather permitting. Otherwise you will want to be in an area you do not mind getting wet. You can call this area your construction site.
4. Layout your cups and straws to match what you drew on your blueprint. Lay everything out before you try putting it all together. You may find you need something to set under some of your cups to gain height. You can turn a cup upside down and use it as your platform.
5. Once you have everything set in place you can proceed with the final construction phase of your project. Using a pencil, poke a hole near the base of each cup where needed. Be sure not to make the holes too big. They only need to be big enough for the straw to fit snugly in.
6. Insert the straws one at a time, placing modeling clay around the holes in the cups and around any seams you made joining two straws together. This is necessary to keep the pipes from leaking.
7. Once you are sure everything is connected and joints are sealed you can prepare your water. It does not take much water to get these projects to work depending on their size. A small picture should do nicely.
8. To spice up your project you can add food coloring to the water. This makes it easier to see the water move through the straws. Start pouring the water into your starting cup and watch it flow.

***Be sure to be prepared for leaks!***

The boys will have a great time designing and building. Through this project they can see how the construction process progresses. They will also learn how gravity works (and so will the parents).

#### Helicopter

Everyone knows that when you run with a pinwheel the wheel will spin. What happens if you turn a pinwheel on its side and put it on top of a helicopter body? Try dropping this model off an upstairs porch or down a tall stairwell.

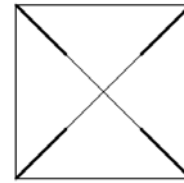


Figure 1

#### Supplies:

6" x 6" Square of Paper  
Scissors  
Colored Markers  
Long Straight Pin with a Round Head  
 $\frac{1}{2}$ " Long Piece of Plastic Drinking Straw  
A Cork

#### Directions

1. Fold the paper once into a triangle. Unfold it, and then fold it into the opposite triangle.
2. Unfold the paper. It should have creases going from corner to corner, forming an X. The center of the X is the center of the square. Make a cut from each corner halfway to the center along each crease. See Figure 1.
3. Use markers to color both sides of the paper and the entire cork.
4. When the paper has dried completely, make the wheel. Pick up any point; stick the pin through the point about  $\frac{1}{4}$ " in from the point, skip the next point, but pick up the next and thread it onto the pin just as you did the first point. Continue around the square, threading Figure 1 every other point onto the pin until you have four points lying flat. Now stick the point of the pin through the center point of the square. Your paper should look like a pin wheel.
5. Slip the piece of drinking straw onto the sharp end of the pin while holding all the points on the pin; then push the end of the pin into the side of the cork about  $\frac{1}{4}$ " from one end. Push the pin in firmly, but not all the way in. The straw should be able to move up and down slightly, and the wheel should feel springy.
6. Throw the helicopter up and watch what happens as it drops. The longer the drop, the better, so look around for good launching places such as stairwells, upstairs porches and balconies.

**Kids love to build! So find some tools, scrap wood, paper, string, clay and anything else you can find around the house and see what your future construction engineers can design and build!**



## PACK AND DEN ACTIVITIES

### DEN AND PACK ACTIVITIES

*Catalina Council*

- ✓ Go fly a kite.
- ✓ Make a parachute.
- ✓ Release a balloon.
- ✓ Make paper airplanes.
- ✓ Make a model airplane.
- ✓ Visit your local Air Force Base.
- ✓ Visit your local airport (flying is prohibited).
- ✓ Launch water rockets.
- ✓ Invite a pilot or astronaut to give a presentation at the Pack meeting.
- ✓ Hold a pack space derby, paper airplane derby, or kite derby.
- ✓ Visit your local Science Museum.
- ✓ Visit your local Air and Space Museum.

### MORE DEN AND PACK ACTIVITIES

*Alice, Golden Empire Council*

- ✓ **Visit a nearby Museum about Aircraft or Flight** – to find a listing by state, go to:



<http://www.kidsinflight.org/>

Click on “The Hanger” and then “Museums” for a listing by state of air museums.

- ✓ **Have a “Timeline Tour of Flight” at your pack meeting.** During the month, learn about all the different man-made things that fly – At the pack meeting, each boy stands near his assigned thing, and can share pictures, historical information and an explanation of how the craft actually “takes flight” as the family members are led through the timeline. You can have the boys draw pictures or use ones from the internet.
- ✓ **Have a Parent-Den Paper Flight competition.** Choose any kind of paper airplane, helicopter or flying “machine” – or let each boy and parent choose one to make. Add “targets” either hanging or on the floor, or make it a distance competition. Either way, boys will love competing against their parents!
- ✓ **Make a different “Flying Machine” at each den meeting.** Choose from paper airplanes, flying disks, boomerangs, any kind of paper creation that can fly.
- ✓ **Have an Ultimate Competition.** Boys can even earn the Belt Loop or Pin!
- ✓ **Take part in a local Bird Count** – check with your local Audubon Society, ask the reference librarian, or just google it – your family, den or pack can do community service while having fun and learning about animals that “take flight.”
- ✓ **Have a Wall of Honor of Famous Fliers** – Not just the Wright Brothers, but everyone from daVinci to NASA Astronauts. See the information under Theme Related.

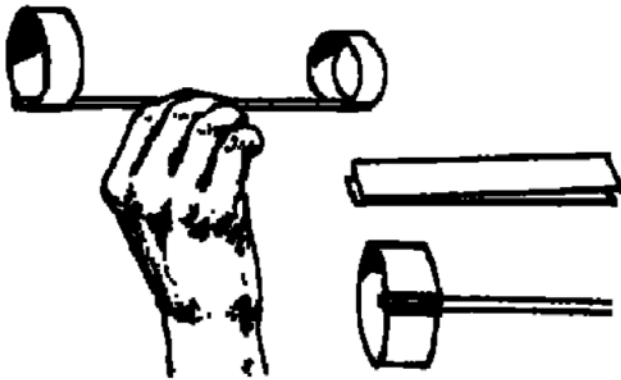
- ✓ **Go bird watching with a local expert** – it could even be a parent; learn about different wing shapes and watch the different ways that birds fly.
- ✓ **Encourage pack families to share their adventures with “take flight” at the pack meeting** – they might visit a museum or airport, make and fly paper airplanes, or even take a helicopter or hot air balloon ride – see what happens!
- ✓ **Make kites to fly** – try lots of different designs, and experiment to see which ones are easier to fly, which ones maneuver best, etc.
- ✓ **Have a Kite Design Contest** – each family creates a design on their kite that represents their family – have everyone explain their design
- ✓ **Have a Kite Flying Day** with the den or pack – make sure to go over safety rules first!
- ✓ **Decorate your Pack Meeting with Kites** - One time, I made life-size silhouettes of each boy on black paper as if he was flying a kite – at the pack meeting, we put up the silhouettes and then used real kites to make the scene realistic.
- ✓ **Have a Space Derby** – it could be using kits, bottle rockets, or even something as simple as Balloon Rockets
- ✓ **Visit an Air Show** if one is available in your area.
- ✓ **Ask families to bring “Take Flight” scrapbooks** or mementos from their visits made by plane, or to museums, air shows or balloon competitions
- ✓ **Visit a local military base or station** to see their planes or helicopters and learn how they are used – you might even have a pack parent that can arrange this!
- ✓ **Ask a pilot to come and share their experiences with flight** – or think about EMT’s, news or traffic reporters, commercial pilots, even someone who collects model airplanes
- ✓ **Visit a zoo, wildlife center or Audubon area** - learn about animals that “take flight” – see if you can compare how different animals fly with man-made flying machines
- ✓ **Invite an “Animal Flight” expert to visit** – in my area, we have a “Bat Lady” who does fantastic hands-on demonstrations and brings real bats to share!
- ✓ **Have a “Take Flight” trivia contest** – use the Fun with Flight facts and have a competition between dens, families or even boys and parents
- ✓ **Ask the Webelos to do a display of flight engineering** from their month’s activities working on the Engineering Activity Pin.
- ✓ **Have a Balloon Game competition** – choose a different game to play at each meeting, such as balloon volleyball or balloon badminton – or let the boys invite their own versions!
- ✓ **Visit a hobby shop to learn about model airplanes and/or rockets** – they might be able to connect you with a local hobbyist who would share their collection or help with tips on building a model plane or rocket

- ✓ Check with the local reference librarian to connect with a rocketry or model airplane club – they often have monthly demonstrations.

**Ring Glider**  
*Catalina Council*

**Materials:**

- Paper
- Tape
- Straws
- Scissors
- Cardboard boxes (optional)



**Directions:**

1. Cut two strips of paper about an inch wide. One strip 7" long, the other 10" long.
2. Tape each strip into loops.
3. Tape the loops onto the straw, one in the front and the other in the back.
4. Hold the straw with the small loop in front and launch the glider.

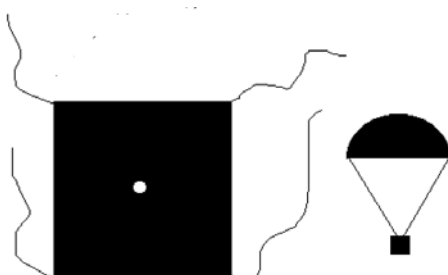
**Play:**

The boys can have glider races, or try to hit designated targets. Create a tunnel out of large cardboard boxes, and try to fly the gliders through the openings. Other contests can be based on flight time, speed, height or aerobatics.

**Parachutes**

**Materials:**

- Lightweight garbage bag.
- Scissors
- Thread
- Weight
- Tape



**Directions:**

- ✓ Cut a large square out of a plastic garbage bag
- ✓ Cut a small hole in the center
- ✓ Attach threads or strings to the corners
- ✓ Tie the loose ends of the thread together
- ✓ Tie the threads to a weight
- ✓ Neatly wad the parachute up into a ball
- ✓ Toss the parachute up into the air
- ✓ **What happened?? Why??**

**Water Bottle Launch**

What makes an airplane fly?

Aeronautics Activities

Materials:

- Pencil or pen
- 8.5" x 11" piece of paper
- My Airplane (Circle Ten Council)

What You Need:

- Paper Towel tube
- Cardboard or poster board
- Paint
- Markers/Crayons
- Various Other Art Supplies of Your Choice

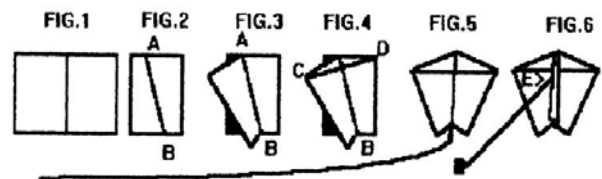
What You Do:

1. Cut a slit all the way through the paper towel roll.
2. Cut out wings from the cardboard and stick them in the slit.
3. Finally, let your children decorate and design their own airplane.

**20 Kids \* 20 Kites \* 20 Minutes -  
Uncle Jonathan's Easiest Classroom Kites Ever**  
*Catalina Council*

**Material list:**

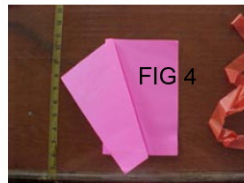
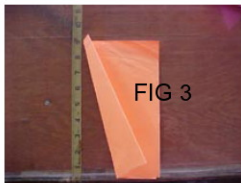
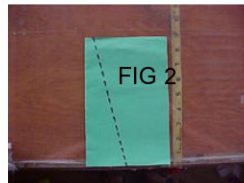
- ✓ 20 sheets of brightly colored 8 1/2" x 11" multipurpose printing paper. 20Lb. Bond is good.
- ✓ 20 8" bamboo bar-b-que shishkabab sticks. *Cut off sharp ends.* Plastic coffee stirrers work quite well also.
- ✓ 1 roll of florescent surveyor's flagging plastic tape. Available at any hardware store. A plastic bag cut in a 1" wide spiral all around will also make a great tail.
- ✓ 1 roll 1/2" wide masking tape or any type of plastic tape.
- ✓ 1 roll of string, (min 200', 6 to 10 feet for each child.)
- ✓ 20 pieces of 1"x 3" cardboard for winding up the string.
- ✓ Scissors.
- ✓ Hole punch. (optional)



**Directions:**

1. Fold a sheet of 8 1/2" x 11" paper in half to 8 1/2" x 5 1/2".
2. Fold again along the diagonal line A in Fig.2. This diagonal line can be determined by making a mark at the top 1/2 inch from the fold and a mark at the bottom 3 in. from the fold and drawing a line between these marks.

3. Fold back one side forming kite shape in Fig.3 and place tape firmly along fold line AB. (No stick is needed here because the fold stiffens the paper and acts like a spine.)
4. Place bar-b-que stick from point C to D and tape it down firmly.
5. Cut off 6 to 10 feet of plastic ribbon and tape it to the bottom of the kite at B.
6. Flip kite over onto its back and fold the front flap back and forth until it stands straight up. (Otherwise it acts like a rudder and the kite spins around in circles.)
7. Punch a hole in the flap at E, about 1/3 down from the top point A. This hole can be reinforced with an additional piece of tape.
8. Tie one end of the string to the hole and wind the other end onto the cardboard string winder.
9. *Go fly a kite!!!*



### GLIDER DERBY

*Grand Teton Council*

A glider or plane derby can be a very enjoyable pack event when the rules are kept simple and uncomplicated. In a glider or plane derby, the object is to keep the craft in the air as long as possible.

The most important official is the timer, who must be equipped with a stopwatch. If the pack is large, you may wish to have two or three timers so that several planes can be in the air at the same time.

A simple derby involves only one type of glider or plane. Kits for balsa gliders and rubber-band-powered planes are available at any hobby or variety store. They are put together by the boy, with help from an adult, and flown without modification of parts, other than the shifting or bending of wings. The derby committee may wish to purchase all kits at the same time to save trouble and expense and distribute them to the boys before the derby.

### Recommended Rules & Guidelines:

Here are some recommended rules and guidelines for running the glider or plane derby; adjust them to suit your event. Agree on the rules beforehand.

- Each glider should be identified by number or a name.
- Timing begins the instant the model is released for flight. Time ends when the model touches the ground, hits an obstruction, or passes from the sight of the timer. The timer may move in any direction (not more than 200 feet) from the take-off point to keep the model in sight, so long as he remains on the ground.
- All boys must launch their own models. The model shall not be launched from a height greater than the flier's normal reach from the ground.
- Specify the number of rubber bands permitted for each plane.
- Specify if lubrication of rubber bands is permitted.
- It is suggested, if time permits, that the flier's score be the total elapsed time of three best flights out of five, or the best two out of three.

### Glider Flying Tips:

- ♣ A glider should be thrown it as if it were a baseball, except the hand should be well over the head on release. The glider's fuselage is held firmly with thumb and forefinger. The glider should be held so that the wings are banked 45 degrees or more. This will put it into a right turn (if launched by a right-hander). The nose should be pointed up at a 45 to 60-degree angle. Rudder should be set for a left turn.
- ♣ After launching, the glider should start a right-climbing turn. The turn decreases as it climbs, until finally at the top it levels off. Then left-turn adjustments take over, and the model should glide down in a smooth left circle.
- ♣ Increasing the arch in the wings can increase lifting power. Hold the wing close to the mouth and exhale heavily upon the wood, bending it gently at the same time. This adds moisture to the balsa wood and keeps the arch in the wings.
- ♣ If the glider dives, slide the wing toward the nose.
- ♣ If the glider dips, slide the wing toward the tail.
- ♣ The rudder can be bent in the same way as the wings by moistening the wood with your breath.

### Judging:

Establishing a point system for judging will make it easier to determine the winners of some of the awards.

Awards can be ribbons or prizes (or both).

Preflight judging can be done for design and workmanship, and prizes could be awarded for: Smallest, largest, funniest, prettiest, most colorful, most unique, most original, best craftsmanship.

In-flight awards can be presented for: longest flight, most time in the air, most graceful, best sportsmanship, most persistent scout.

**Kite Derby**

*Baltimore Area Council*

A Kite Derby could be held this month in place of the usual Pack Meeting. Here are some suggestions on holding a kite derby:

**Instructions:**

1. Parents and sons work together on kites.
2. Sons will fly them in competition, but a parent may be a "starter" to help get kites into the air.
3. A Cub Scout may enter more than one kite. No kite will be eligible for a prize unless it flies.
4. Kites may be of any size and design, but may not have more than 100 yards of string.
5. All Cub Scouts and parents agree to abide by these "Nevers" in making, testing and competing with their kites:
  - Never fly a kite near electric wires, ditches or ponds.
  - Never use metal in making kites.
  - Never use wire or wet string for a kite line.
  - Never fly kites on a public street, highway or railroad right-of-way.
  - Never try to remove a kite entangled in wires, treetops, roofs or high poles.

**How Many Ways Can You Make A Kite?**

*Grand Teton Council*

- ✓ If you cut the inside section out of a paper plate, glue tissue paper streamers to it, then tie on a string, it will fly.
- ✓ A kite string tied to a plastic grocery sack will fly as high as a real kite on a windy day.
- ✓ You can also make a kite by cutting a 2" circle out of the bottom of a lunch sack. Tie an 18" piece of string to the top of the bag, then attach a kite string.
- ✓ Challenge the children and their parents to "invent" their own homemade kites.

**Kites**

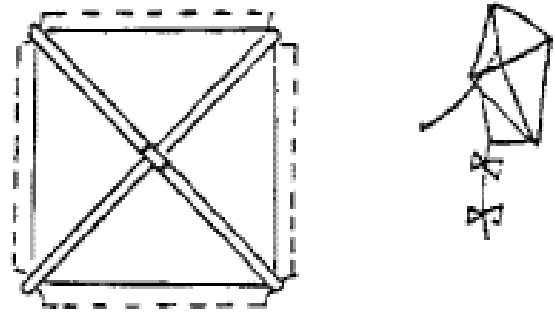
*Baltimore Area Council*

**Construction Details:**

1. Various woods may be used for kite sticks.
2. For the frame, use string or heavy linen thread.
3. For the bridle, use heavy string.
4. The paper cover of the kite may be:
  - newspaper
  - wrapping paper
  - tracing paper
  - heavy tissue.
5. A cloth cover may also be used.
6. The sticks for the kite frame should be:
  - for a 36 inch kite at least 1/4 inch square
  - for a 48 inch kite at least 3/8 inch square
  - for a 60 inch kite, at least 1/2 inch square.
7. All joints should be lashed together instead of nailed.
8. Good glue will also help in holding the joints together.

**Square Kite**

*Baltimore Area Council*

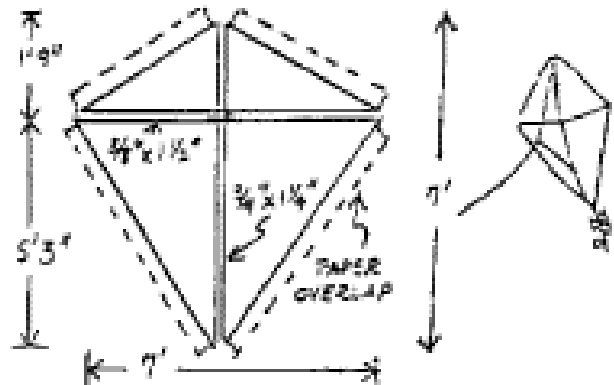


**Instructions:**

1. Attach two strings to opposite corners.
2. Bring together and tie kite string about 1/3 down from the top.
3. The tail string is attached to the bottom corners of the kite.

**Two Stick-Bow Kite**

*Baltimore Area Council*

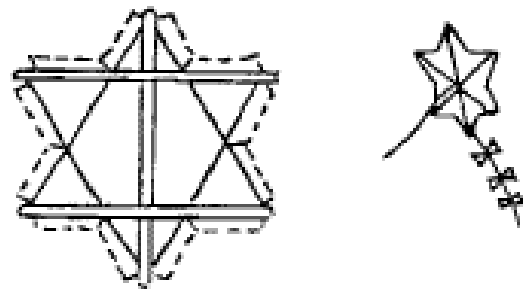


**Instructions:**

- ☆ Lash joints where sticks cross.

**Six-Point Star Kite**

*Baltimore Area Council*

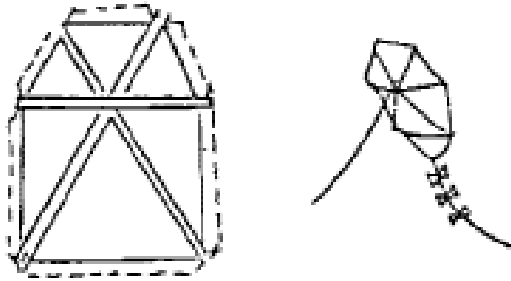


**Instructions:**

1. Three sticks of the same length.
2. Cross sticks at 1/4 from the top.
3. Make bridle string of three strings.
4. Tie them together near upper cross stick.



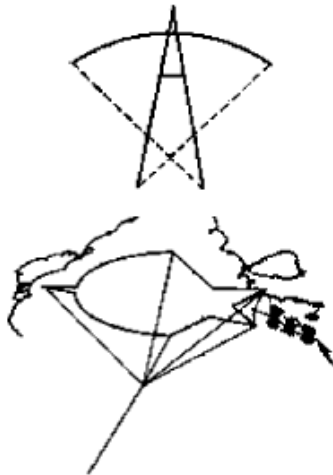
**Three-Stick Kite**  
Baltimore Area Council



**Instructions:**

1. The cross-stick is 2/3 the length of the two long up-right sticks.
2. The cross-piece is lashed 1/3 from the top of the uprights.

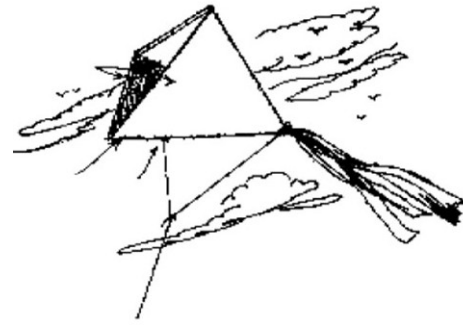
**Bird Kite**  
Baltimore Area Council



**Instructions:**

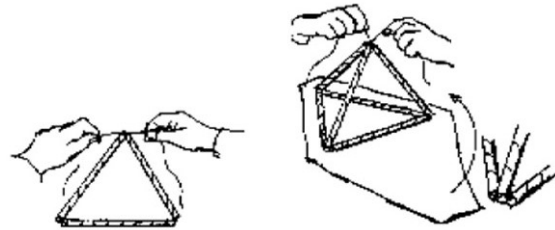
1. Whittle ends of 26 inch dowel sticks to form bird's bill.
2. About 10 inches down from the bill, put an 8 inch cross brace.
3. Lash and glue bill and brace.
4. Leading edge of wing is a bendable 40 inch stick.
5. Lash stick and glue it 5 inches down from the bill.
6. When it is secure, bend it by tying strings from wingtips to opposite tail poles as shown by dotted lines.
7. Cover frame with paper or plastic.
8. Bridle is attached to all five points.
9. Tail should be three times as long as the bird.

**Miniature Kite**  
Baltimore Area Council



**Instructions:**

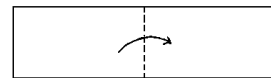
1. Use six drinking straws, light string and tissue paper.
2. Thread string through straws (it can be sucked through) to form triangles and crosspiece.



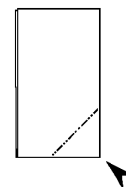
3. Cover both sides with tissue paper, gluing over edges.
4. For bridle, attach top string to center straw about one-third of the way down from top; make lower string a little longer and attach to bottom.
5. At the point where ends of strings meet, tie light kite string.
6. Tail is three-foot length of two-inch wide strips of tissue.
7. This tiny kite will fly from 10 to 50 feet high.

**The Ticker Tumbler**

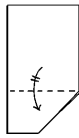
Alice, Golden Empire Council  
Here is a sample of what you can find at  
[www.bestpaperairplanes.com](http://www.bestpaperairplanes.com)  
Check out their other great designs,  
like the Canadian Goose!



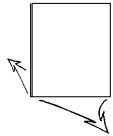
1. Fold a thin sheet of paper 1"x5-3/8" or a thick sheet 2-1/2"x9-1/2" and fold it in half.



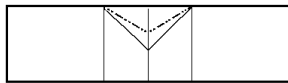
2. Carefully fold and unfold a right angle triangle to make a crease and then fold it (sink) into the center. Bottom side of the triangle should be about 3/5 bottom width



3. Fold down what will become the “wings.”



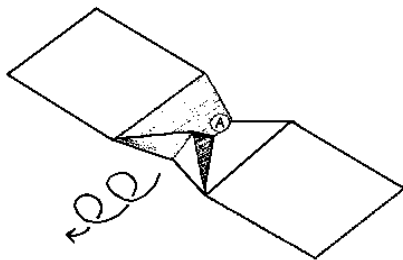
4. Open out fairly flat (but don't flatten the creases very much)



5. Reverse fold downward the front 3/5 of the triangle now sticking up in the center.



6. Without changing any folds, adjust their angles to produce a likeness of this and the next diagram. Make sure that the “wings” do not angle too much upward or downward, that the center structure is not too steep or shallow. Make sure “wings” are flat, not warped – look at them head on.



7. The Ticker Tumbler flies by tumbling over itself along a glide path – it's a good duration flier. It moves about 2 feet forward for every foot it drops.

**You launch this flier in an unusual way:**

Hold at point A with your index finger above, and thumb and middle finger below. Quickly but gently flick it forward while pulling the back end down (takes some practice) – Practice the launch for a NEW flying toy!

**Papercopter**

*Alice, Golden Empire Council*

**Materials:**

Strips of heavy paper or cardboard (1X10 inches)  
Small paper clips  
Markers or crayons

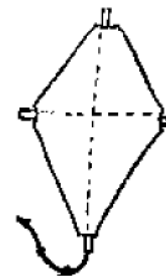


**Directions:**

1. Fold a 1X10-inch strip of paper in half.
2. Decorate both sides of your copter.
3. Fold the ends down about two inches, but don't fold them straight down. Instead, fold them at a slight angle.
4. Place a paper clip on the bottom and fold the wings out.
5. Holding by the paper clip, toss it up into the air and watch it spin!

**Kite Neckerchief Slide**

*Baltimore Area Council*

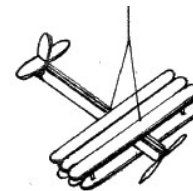


**Instructions:**

1. Cut kite shape from foam meat tray.
2. Tie two toothpicks together crosswise and glue.
3. Cut points off picks to proper length for kite.
4. Glue to kite.
5. For a tail, use a piece of yarn with knots tied in it.
6. Glue it to the bottom of the kite.
7. Glue Ring on back.

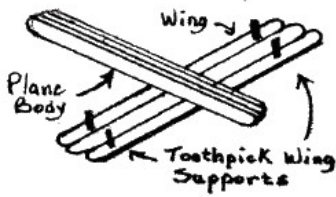
**Craft Stick Airplane**

*Utah National Parks Council*



**Supplies:**

craft (ice cream, popsicle) sticks,  
toothpicks,  
glue,  
paint,  
and string



**Directions:**

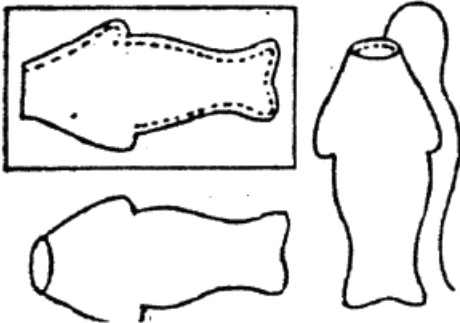
- Work on waxed paper.
- For the body of the plane, glue three sticks together.
- For the lower wing, glue three sides together, side by side.
- Make the upper wing the same way.
- Glue the lower wing to the bottom of the body.
- For a pair of wing struts at each end of the wings, cut pieces of toothpick, 3/8" long.
- Glue the struts upright to the lower wing.
- Glue the upper wing on top.
- For the tail, cut three pieces from the rounded ends of sticks.
- Glue two of the pieces over the back end of the body,
- Glue the third tail piece upright in the center of the first two pieces.
- For the propeller, glue two pieces of toothpicks to the front end of the plane.
- Paint the plane, adding details and insignia.

**Fish Kite**

*Utah National Parks Council*

**Supplies:**

Lightweight paper  
all purpose or piano wire



**Directions:**

- For the tail, cut three pieces from the rounded ends of sticks. Glue two of the pieces over the back end of the body, glue the third tail piece upright in the center of the first two pieces.
- Cut 2 matching fish shapes out of lightweight paper. Each should be about 16 inches long with a 3/4 inch tab at the mouth end.
- Color the fish body
- Glue the edges around the body leave the tail and mouth ends open.
- Make a ring of wire to fit the mouth, then fold the paper tab at the mouth end over the wire ring and glue in place.
- Attach the string to the wire.
- Your kite is ready to fly the kite race!

**Flying Saucer**  
*Catalina Council*

**What You Need:**

- Two CDs for each boy (AOL Free CDs are great)
- Glue
- Cup Lid or Milk Cap
- Construction Paper
- Paint
- Various Other Art Supplies



**Directions:**

1. Glue the Two CDs together (so that only the shiny parts can be seen).
2. Then paste the milk lid on so that it looks like the cabin of the flying saucer.
3. Then let your boy's finish the design of the flying saucer anyway that they can.
4. You can also use cardboard pieces or cardboard pizza bottoms to make the flying saucers.

**Balloon Prints**

*Grand Teton Council*

- ☺ Pour three or four different colors of tempera paint into separate aluminum pie tins.
- ☺ Partially blow up a small balloon that matches each paint color.
- ☺ Then have the Cub Scouts dip the balloons into the matching colored paint and press them on sheets of white construction paper to create balloon prints.
- ☺ (Variation: Use just one color of paint and matching colored balloons.)

**MORE GAMES AND ACTIVITIES**

*Sam Houston Area Council*



From the Cub Scout Leader How-To Book –

- ✓ **-Space Derby, page 6-29 to 6-31**
- ✓ **-Flying Bat (as in animal), Fly the Airplane, pages 7-6**



## ADVANCEMENT IDEAS

From Program Helps via  
[www.cubroundtable.com](http://www.cubroundtable.com)

*If you follow the grid on the inside of the cover in the front of Cub Scout Program Helps, your Cub Scouts can complete earning their Rank Awards (Tiger, Wolf, Bear) by the Blue and Gold in February.*

*No Achievements this month  
 as the plan is to have them finish in February*

### Tigers –

**Elect.** 14, 25, 32, 35, 41, 42

### Wolf-

**Elect.** 5a, 5b

### Bear –

**Elect.** 2b, 2c, 6c

*Alice, Golden Empire Council*

Work on the **Ultimate Belt Loop and Pin** and have fun with Frisbees. Or try the new **Family Travel Belt Loop and Pin** – boys can research everything from places to visit to transportation costs, and families can enjoy time together while learning about flight!

### Tiger Cub Achievements

**Ach. # 1G** – Visit an Air or Flight Museum and look for examples of early flight or children’s games and activities about flight – try to imagine how a boy living in that time would have felt seeing his first airplane, helicopter, or other means of flight

### Tiger Cub Electives

**Elect. #14** – Choose a book or article about man-made flight, such as airplanes, gliders, or hot air balloons, or read about one of the animals that uses flight

**Elect. #17** - Make a model of something that takes flight – it could be an airplane or even a bird – or participate in a space derby.

**Elect. #19** – Amaze your den by demonstrating the unbreakable balloon – then let it take flight, play balloon volleyball, balloon badminton (pg.99, Program Helps) or make balloon “rockets” – see Theme Related **Elect. #25** – Make one of the fun snacks from Cub Grub

**Elect. #29** – Practice Sun Safety, even if you are outside on a cloudy day watching for airplanes or making your own “flying machines”

**Elect. #31** – Choose an animal that can “take flight” to learn about – think about whether that animal could have been the first model for some man-made flight. You might even be able to make a paper airplane based on your animal that flies – see Theme Related

**Elect. #32** – Make a bird feeder for the original model of flight – birds!

**Elect. #35** – Play an Ultimate game, make airplanes, or do one of the Take Flight games outdoors with your den

**Elect. #41** – Visit an airport and learn how people get around by taking flight; or see if there’s a hot air balloon or airship facility nearby that you could visit

### Wolf Achievements

**Ach. #6** – Make a collection of things that Take Flight, such as different paper airplanes; or use pictures to make a collection of man-made things that fly, or animals that fly.

**Ach. #10d** – Read a book or magazine article with your family about flight or something that flies

**Ach. #10e** – Watch a television program about flight or an animal that takes flight (check local PBS stations, or check out PBS archives and watch a program on the computer!

### Wolf Electives

**Elect. #2** – Do a skit about something that takes flight, or about how some means of flight was discovered – you can use costumes, sound effects, scenery and props

**Elect. #4f** – Play a wide area game outside with your den or pack – such as Ultimate, making and flying paper airplanes

**Elect. #5 a-d** – Make and fly kits – but be sure to do #5a first so you will be safe! **Elect. #5g,h,i** – Make or put together some kind of model airplane or thing that flies

**Elect. #6b** – Choose a book about something that flies, either animal or man-made, or choose a book about the history of flight or someone who made history in flight

**Elect. #11f** – sing one of the Take Flight songs with your den at a pack meeting

**Elect. #12d** – Make some scenery for a skit, play or puppet show about flight; **Elect. #12e** – Make a stencil pattern to use to decorate an airplane; or make a stencil pattern of planes, hot air balloons, or even birds that you can use to add detail to the scenery you made

**Elect. #13** – Do any or all of the requirements about birds – and notice their wing shape or flight patterns! If you read a book about birds, see what you can learn about how they are designed to fly

**Elect. #18b** – With an adult, help plan and run a family or den outing – and include a Take Flight activity, such as playing Ultimate or making paper airplanes to fly

### Bear Achievements

**Ach. #3b** – With the help of your family or leader, learn about two famous Americans who did something to improve life – think about flight or space pioneers such as the Wright brothers

**Ach. #5a** – Choose a bird you like, learn all you can, including about the wing shape and flight patterns, and share what you learned in a poster **Ach. #5b** – Make or build a birdhouse or bird feeder and hang it where birds will use it

**Ach. #5d** – Visit an aviary, nature center, zoo or wildlife refuge and learn all you can about an animal that “takes flight”

**Ach. #8a** – Visit a library or newspaper office and see if you can find out how people felt about new ways to take flight – such as the dirigibles of the early 20th century or the first airplanes **Ach. #8e** – while you are learning about the history of your community, find out when the first airport was built, when people first began to use airplanes in your community – or visit a nearby air museum and see the real thing!

**Ach. #9b** – With an adult, make some snacks for the den meeting, using ideas from Cub Grub



**Ach. #10a** – With your family, go on a day trip to an airport or museum where you can watch and learn about things that “take flight”

**Ach. #12d** – Attend an outdoor event with your family, such as an Air Show or Hot Air Balloon competition; **Ach. #12e** – plan an outdoor family day that includes flying kites, making paper airplanes, or some activity about flight – you could even make a list of things that fly that you see during the day – or take part in a “Bird Count in your area!”

**Ach. #15a** – Set up the equipment and play a game where some object takes flight; **Ach. #15b, c** – Choose a game that involves something taking flight, or choose a game from this month’s Baloo’s Bugle

**Ach. 18d, e** – Write an invitation or thank you note to a guest expert, such as a pilot or wildlife expert who can share information about flight with the den or pack **Ach. #18f, g**

– Write a story about a family or den visit to an airport, space museum, kite day or other “Take Flight” event

**Ach. #21a, b, f** – build a model airplane or rocket and/or a display for a model

**Ach. #24c** – plan and conduct a den activity about flight with the approval of your den leader – it could be an Ultimate game, making paper airplanes or helicopters, visiting a “flight” location, or inviting a pilot or other expert to visit your den.

**Bear Electives**

**Elect. #1d, e** – Build a model of a rocket or space satellite; read and talk about at least one man-made satellite and one natural one

**Elect. #2 – Weather** – since weather affects flight, you might want to work on this elective; it is also part of the Conservation Award

**Elect. #6 – Aircraft** – Do any or all of the requirements

**Elect. #9a** – Do an original art project by creating an original design for a kite

**Elect. #22 b, c** - Collect and display different airplane, paper airplane or rocket designs or pictures; or start or add to your own library of books with a section on flight

**Webelos Activity Pins**

**Webelos Engineer (assigned) #1** – Talk to an aeronautical engineer, or one who can talk about how engineering is used in designing and building things that “take flight” – Engineering is also used when airports are designed and built. **#9** – Build a catapult and show how it works.

**Communicator #8** – Write a story about a den or pack visit to a museum about flight, a pack competition such as a paper airplane or ultimate event, or about a visit from an expert about flight – either man-made or natural. **#12** - Under parent supervision, search five internet web sites about flight – either natural or man-made

**Craftsman #3** – Make a display stand for a model airplane, rocket or other “flight” item

**Family Member #8** – Make a list of fun things your family could do to learn about flight

**Scientist #1, 2, 3** – Investigate different principles and laws and how they affect flight **#8** – With adult supervision, build a model rocket and learn about Newton’s laws of motion and how they affect flight

**Traveler #1, 2,** – Use maps and timetables to plan a trip by airplane from your local area. **#4** – With a parent or guardian, take a trip by plane. **#5** – Figure out the cost per mile for the trip you took or planned. **#11** – make a list of safety precautions to follow to travel by different methods, including airplane.

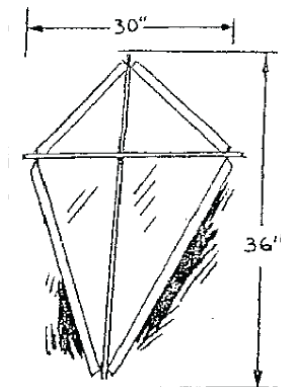
**GAMES**

**Homemade Kite Flying Contest**

*Utah National Parks Council*

**Materials:**

- Strong wrapping paper, strong plastic, or cloth,
- 1/8 to 3/8 inch stick, 36 inches long
- 1/8 to 3/8 inch stick 30 inches long,
- glue or rubber cement
- At least 100 feet kite string



**Directions**

- Notch sticks in ends for strings.
- Tie sticks together at right angles as shown.
- Run Framing string around kite and tie.
- Measure & cut cover with 1 inch overlap all around except at sticks, as shown.
- Lay the frame over the cover and fold all flaps over the frame.
- Check for fit.
- Glue one flap at a time
- Add a strong string with strips of rag tied on for a tail at the bottom of the kite.
- Tie a string loosely to longest stick, 3” above and 5” below cross piece.
- Tie the rest of the 100’ string to the loose string on the center stick.
- Hold a kite derby with all sorts of prizes!
- Be sure to recognize effort and creativity.

**Balloon Tag**

*Catalina Council*

A circle is formed leaving one person on the outside. A balloon or a ball is passed around the circle in either direction and the person on the outside has to try to 'tag' the person who has the balloon. If successful they change places.

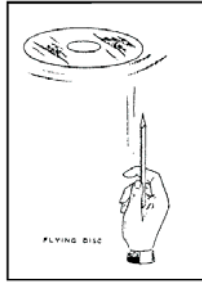
**Nose Balloon - Elbow Balloon - Balloon Race**

*Catalina Council*

The balloon is pushed along from start to finish using noses only, or elbows only, or anything except hands.

**Flying Disc***Utah National Parks Council*

From a foam tray cut out a 5 ½ inch circle with a 1½ inch circle cut out of the center, (use a CD as a pattern.)



Place the disc over a pencil and with a rapid circular motion work the disc up to the top of the pencil.

The disc will fly off of the pencil and glide gently to the ground.

Make it a game by making a target to lie on the ground.

The one with the disc that came closest to the center of the target wins.

**Airplane Blitz***Catalina Council***Set Up:**

- Bring a stack of copier paper or scratch paper and let the kids make lots and lots of paper airplanes.
- Then you need some way to clearly divide the room in half. (The taller the divider the better.) A couch works, but even better was a rolling chalkboard.
- Put half the kids and half of the paper airplanes on each side of the divider.
- Explain that they start throwing airplanes over the divider when you say "Go." They can only throw ONE plane at a time and they must stop when the leader says "Stop".

**Play:**

- Say "Go".
- They throw the airplanes over the divider as fast as they can. Planes are flying in both directions. Let them go about 3 minutes.
- Give them a ten second warning and then say "stop".
- Count the airplanes on each side of the divider.
- The team with the least number of planes wins.
- Repeat it a number of times, keeping track of the wins to get the champions.

**Air Mail***Catalina Council***Set Up and Play:**

- One person is blindfolded.
- The others all take the names of cities around the world, except one player who is chosen as "postmaster" and has a list of all the selected cities.
- The postmaster calls out, "The mail is going from London to New York," naming two of the cities on the list.
- The players whose cities were called must then fly to each other's airports (i.e., exchange seats), while the blindfolded player tries to tag one as they move; if he succeeds, he trades places with the pilot.

- Sometimes the postmaster calls out "general post" and all must change seats, with the player left standing getting the blindfold.

**Space Shuttle Relay***Catalina Council***Set Up:**

A traditional running race. The change is in where you tell them they are running

Teams line up in adjacent rows.

**Play:**

First player races to a given point (the moon?) and back (to earth?) to tag next player on his team, who then takes off running.

Race until first person is tagged by last player on team.

**Stunt Pilot Race***Catalina Council***Set Up:**

Form trios, with 1 boy facing forward, 2 facing backward, all linked at their elbows.

**Play:**

Trios race to the "moon" with the one player facing forward, and back—with the two players facing forward (i.e., without turning around).

**Balloons on the Wall***Catalina Council***Set Up:**

This can be played either on a team or individual basis.

A large pile of balloons is assembled in the center of the room and each player or team is allocated an area of wall.

**Play:**

On the word 'Go!' each player takes a balloon, rubs it on his or her clothing to create a static charge and attempts to stick it on his or her area of wall.

When stop is called the team or player with the most balloons on its patch of wall is the winner.

**Kite Games:***Catalina Council***100-Yard Dash**

- ✓ On a signal the boys may launch their kites in any manner.
- ✓ Kites must be flown to the end of a 100-yard cord and then wound back to the hand of the flier.
- ✓ An assistant may remain under the kite as it is wound in to catch it before it falls to the ground.
- ✓ The race ends when the flier has rewound all his cord.
- ✓ At the finish, the flier must be on the starting line with his wound kite in his hand.

**Altitude Race**

- ✓ Fliers start on signal and run out from the flying line, working the kite up to its highest possible altitude.
- ✓ At the end of 5 minutes, all fliers return to the starting line.
- ✓ The kites at the lowest elevation are then ordered down.
- ✓ The judges determine which kite is flying the highest.

**Paper Message Race**

- ✓ All players send their kites up to a specific length of line-about 50 yards.
- ✓ A paper message is attached to the flying lines and allowed to blow up the kite.
- ✓ The boy whose message first reaches his kite wins the race.

**Keep the Satellite Up**  
*Catalina Council*

**Set Up:**

Scientists rely on gravity and inertia to keep satellites in orbit. Your task is to keep the satellite from falling to earth.

**Play:**

- ☺ Using a beach ball, have Scouts start hitting it around and try to keep it off the ground.
- ☺ Then challenge them to keep it in the air for 20 orbits (hits), or 30 orbits, etc.
- ☺ Encourage them to develop some strategy (such as establishing "zones", or an order, etc.) to try to keep the ball up for as many hits as possible.

**Paper Spaceship Throwing**  
*Catalina Council*

**Set Up and Play:**

Preferably an indoor game where the Cubs try to throw their paper spaceship the farthest. Great for "Cub Scout Roundup" nights when the new prospective Cubs have their meeting "fliers" to turn into "flyers". Do this game while the parents are filling out registration forms.

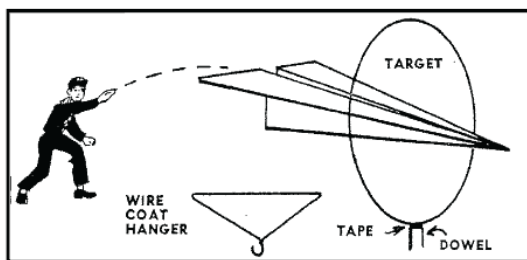
Mark a gridiron on the floor, similar to a football field. Have a throwing line and distances marked. Perhaps have hash marks to encourage boys to keep their planes near the center.

Have a prize for the winner.

Make it tougher by having a box (or several) in the grid.

Anyone who gets his airplane into a box wins a special prize.

**Or instead of a box -**



Another kind of 'Hangar.'

**Airplane Toss**

*Baltimore Area Council*

Each Cub Scout folds his own paper airplane from a sheet of paper. Let the boys have a few minutes to fly their planes to get used to their own. Then have contests, such as:

- ☛ Greatest distance flight,
- ☛ Most accurate flight to airport (box),
- ☛ Flight through hoops the greatest distance,
- ☛ Staying airborne the longest, etc.

**Astronaut Training**

*Baltimore Area Council*

This is a good physical fitness relay.

**Supplies** - Two beanbags, two jump ropes and two rubber balls are needed.

**Play:**

- Divide the players into two teams.
- They stand behind starting line.
- At a turning line 15 feet away are a jump rope, beanbag and ball.
- On a signal, first player runs to turning line, takes jump rope, jumps 10 times, tosses bean bag in air 10 times and bounces ball on floor 10 times.
- He runs back to his team, touches next player who repeats the action.
- First team to finish is the winner.

**Number 5 Is Alive**

*Baltimore Area Council*

- ♣ Line Cubs in a straight line facing the goal, which is another line 30' away.
- ♣ All players must close their eyes, holding their hands open behind them.
- ♣ The leader walks behind the players and secretly places a small object (a penny, button, or maybe a bolt) in the hand of one of them.
- ♣ The leader says, "Number 5 is alive!"
- ♣ Everyone walks toward the goal.
- ♣ Number 5 tries not to let others know who he is.
- ♣ Then the leader says "Look out for Number 5" who then tries to tag as many players as he can before they get to the goal.
- ♣ When everyone is back, Number 5 becomes the leader.

**Airplane Relay**

*Baltimore Area Council*

Divide cubs into teams. Each cub is given a balloon filled with water (fuel). The object of the game is to place the water balloon between legs (knees), then with arms outstretched (wings of plane), to reach other destination (goal) with fuel intact. First team with most fuel still intact wins.

**CUB GRUB**

**RADAR SNACK**

*Utah National Parks Council*

**Ingredients:**

- Small cored apple,
- Olives,
- Toothpicks

**Directions**

- ♣ With olives on 2 toothpicks insert at the top of the apple on each side of the hole.
- ♣ Fill the hole with grapes or raisins.

### Graham Cracker Kite

*Catalina Council*

#### Ingredients:

Graham Crackers  
String Licorice  
Colored Sugar  
Sprinkles  
Raisins  
Chocolate Chips

#### Directions:

1. Frost half of a graham cracker.
2. One option is to use red string licorice and make a kite shape around the edges and middle of the cracker.
3. Decorate your kite.
4. Another option is to not use the licorice and use a decorating set and decorate it any way you like.
5. You can put colored sugar, sprinkles, other fancy things you buy in the store, raisins, chocolate chips, etc. on your kite.

### Kite Toast

#### Ingredients:

Milk  
Sugar  
Bread  
Food Coloring

#### Directions:

1. For each color, take 1 tablespoon milk (rice, soy, or cow's) and 1/4 to 1/2 teaspoon sugar and mix it. This makes quite a few pieces of toast.
2. Cut the bread to be a shape of a kite.
3. Place some of the milk mixture in small jars, glasses, small margarine containers, or other containers.
4. Add food coloring to each container.
5. Paint the bread using different colors.
6. Put the bread in the oven or a toaster oven.
7. Take it out when it is lightly brown.

### Pudding In A Cloud

*Alice, Golden Empire Council*

#### Ingredients:

2 cups Thawed Cool Whip, non-dairy - whipped topping  
1 package (4 serving size) Jell-O chocolate instant pudding  
2 cups cold milk

#### Directions:

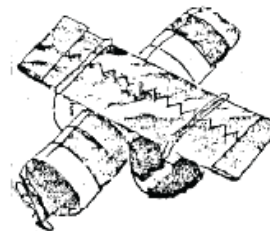
1. Spoon 1/3 cup of whipped topping into each of six dessert glasses.
2. Using back of spoon, make depression in center and
3. Spread topping up sides of glass.
4. Prepare pudding with milk as directed on package.
5. Spoon pudding into glasses.
6. Chill.
7. Makes 6 servings.

### GUM AIRPLANE

*Utah National Parks Council*

#### Ingredients:

3 Sticks of Gum  
3 Life Savers  
Felt  
A straight pin



#### Directions

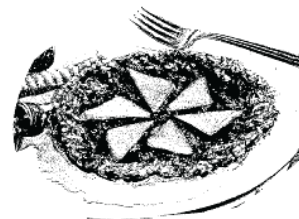
- ✦ Glue the two sticks of gum together for the body and
- ✦ Glue the other stick of gum horizontal to the body for the wings.
- ✦ Glue 2 life savers on the bottom of the gum for the front wheels and glue one in the back for the back wheel.
- ✦ Cut small propellers from felt and push into the front end with a straight pin. (Be sure to warn children not to eat the pin.)

### PROPELLER PIE

*Utah National Parks Council*

#### Ingredients:

1-pound ground beef  
2 eggs, slightly beaten  
3 cups cooked rice  
2 teaspoons seasoned salt  
3/4 cup catsup  
1/2 teaspoon oregano  
4 slices Cheddar cheese



#### Directions

1. Combine ground beef, eggs, rice and salt in a large mixing bowl;
2. Mix well.
3. Spread into 8 foil "pans" or 1 large pizza pan. (For foil pans, use 8-inch circles of aluminum foil, 3 layers each.)
4. Use a coffee can lid or cardboard circle as a guide for shaping.
5. Crimp edges of the foil as you would a piecrust to give a sturdy edge.
6. Spread with catsup; sprinkle with oregano.
7. Bake at 450 degrees for 10 minutes.
8. Top with cheese cut into small triangles.
9. Bake at 450 degrees for 5 minutes longer or until cheese is bubbly.
10. Yield: 8 servings.



**Sun Sodas***Utah National Parks Council***Ingredients:**

Orange Sherbet,  
Orange Soda

**Directions**

- ☺ Serve a scoop of orange sherbet in each tall
- ☺ glass of cold orange flavored soft drink.

**Astronaut Pudding***Recycled from the June 2000 Baloo***Need:** pudding mix, milk, zip lock bags

Use 1 tablespoon of chocolate (or any flavor) instant pudding in a Ziploc bag. Add 1/4 cup of milk. Close the bag. Squish up the pudding and milk mixture. Poke a hole in the bag and suck it out. Eat just like the astronauts with no utensils!!

**WEBELOS**

*This could be a Webelos Den's last salute and thank you to the pack before graduation. CD*

**Graduation of a Webelos Den to Boy Scouts***Adapted from Alapaha Council Pow Wow Book*

All graduating Cub Scouts stand at the front of the room.

Props: 10 candles, 10 cards with verse

*Dim lights - candles are lit:*

**Cub # 1:** We've played together and worked together.

**Cub # 2:** Maybe had a fight or two.

**Cub # 3:** We've taken trips and had some slips.

**Cub # 4:** And seen many projects through.

**Cub # 5:** That Tiger Badge seems so long ago

**Cub # 6:** We earned our Wolf and Arrow Points.

**Cub # 7:** And passed the tests for our Bear degree.

**Cub # 8:** We earned Activity Awards for Webelos

**Cub # 9:** And finally those for Arrow of Light

**Cub # 10:** Now, Boy Scouts we'll soon be.

**Leader:** We hope you remember Den (#) with delight!

**CM:** We salute you Den (#)! Good luck! Happy Scouting!

*At this time, the den does its cheer one last time and the Bridging Ceremony to Boy Scouts is begun*

## ENGINEER TECHNOLOGY GROUP

*Great Salt Lake Council***Den Activities**

- ✓ Arrange for boys to visit an engineer or surveyor in a municipal county office. Plan for the boys to look through the surveyor's manual and read a rod.
- ✓ Visit a construction site and see the plans that are being followed.
- ✓ Visit the county water works or a TV or radio station.
- ✓ Have someone explain how to read topographic maps.
- ✓ Make a block and tackle. Be sure to explain its purpose.
- ✓ Make catapults and demonstrate them at pack meeting, shooting at a safe target (away from people) candies for distance.

- ✓ Discuss different types of engineers. If one can visit your den, let him describe briefly what his duties are.
- ✓ Have an engineer or surveyor visit your den meeting.
- ✓ Demonstrate the basic principles of leverage by using a teeter-totter or a plank with a fulcrum made of bricks or blocks.
- ✓ Invite a civil, electrical, mechanical or chemical engineer to the meeting to discuss his/her occupation.
- ✓ Obtain a blue print of a building and ask an engineer to discuss the plans. Then tour the building.
- ✓ Measure the dimensions of your meeting place and include the locations of doors and windows. Show how to sketch a simple floor plan with these measurements.
- ✓ Have a resource person demonstrate the use of drafting tools.
- ✓ Invent a machine to do a task. You might even have fun concocting a "Rube Goldberg" invention.
- ✓ Have an engineer visit your den and tell about his profession. He might be able to bring a set of blueprints, and explain the symbols used, and show how he uses blueprints.
- ✓ Ask your local Boy Scout troop to give a demonstration of some of the skills needed for the Pioneering Merit Badge. One particular item of interest would be to see a rope monkey bridge being lashed together.

**Model Monkey Bridge***Circle Ten Council*

Based on a foot bridge found in the high mountains of India, the monkey bridge uses one thick rope to walk on and two others as hand ropes.

The same design and knots used in the full-sized version are used in this model. The monkey bridge is often built in Scout camp as part of the Pioneering merit badge.

You'll need some hemp cord, some pieces of strong string, four 1/4" dowels 10" long, and two 1/4" dowels 4" long. A piece of scrap lumber at least 30" long and 4" wide makes a good base.

Make the shear lashings first, about 4" from the top of the shear legs. Tie loosely so the legs can open. Add the crosspieces, fastened with square lashings about 2" from the bottom. All lashings begin and end with a clove hitch. Stretch the cord between the supports and tack the ends in place. Add the hand ropes and fasten them to the same anchor. Paint or stain the wood to give the bridge a rustic look.

**Speakers in the following Fields of Engineering***Circle Ten Council*

You may be lucky enough to have some Moms and Dads of your Scouts who are Engineers. Invite them to speak about what they do. Perhaps, they could even take the den to see where they work and what they do. Or maybe there is a big local plant near you that has Engineers who would be willing to volunteer some time to show your den around. I live near a large DuPont facility and have met some of their staff and toured their Waste Treatment facility. Here are some ideas about what engineers do -

**Aeronautical Engineering** - deals with the whole field of design, manufacturing, maintenance, testing, and the use of aircraft.

**Industrial or Management Engineering** - pertains to the efficient use of machinery, labor, and raw materials in industrial production.

**Chemical Engineering** - concern with the design, construction, and management of factories in which essential processes consist of chemical reactions.

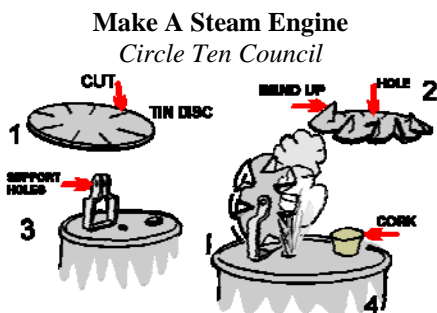
**Civil Engineering** - is one of the broadest of the engineering fields dealing with the creation improvement and protection of the communal environment. Buildings, roads, bridges, airports and other constructions are just a few of the areas civil engineers impact.

**Electrical Engineering** - involves the use of electrical power, electrical machinery and communication, information, and control systems.

**Geological and Mining Engineering** - includes activities related to the discovery and processing of minerals.

**Mechanical Engineering** - speaks to the design and operation of all types of machinery.

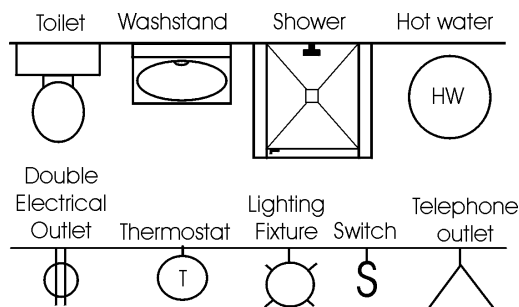
**Safety Engineering** - is concerned with the prevention of accidents.



A Webelos Scout may get a graphic demonstration of the power of steam by building the simple steam turbine shown in this illustration. Materials needed are a tin can, a lid from a second tin can, a pair of tin snips, a sheet metal screw, a cork, a power drill, an extra piece of tin to make the support for the turbine wheel, a finishing nail, and a source of heat. Assemble to look like the illustration.

**Blueprint Symbols.**  
*Circle Ten Council*

Can be used in floor plans drawn for requirement 8 of the Webelos Engineer activity badge. Make a game of learning them by putting each one on a 3" x 5" card and using them as flash cards.



**Paper Bridge Competition**

*Karen, Webelos Leader (and an engineer),  
Pack 23, Suffern, NY*

**Materials:**

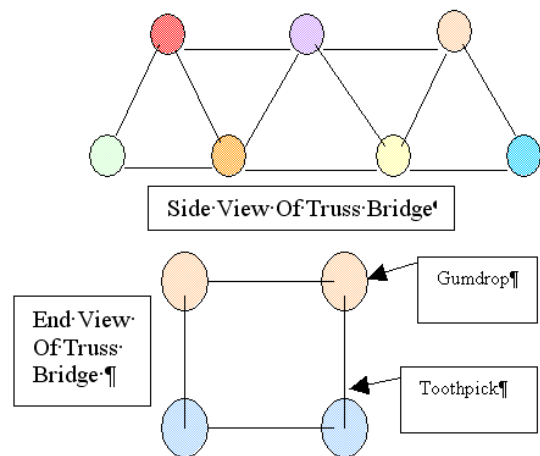
- 2 rolls masking tape
- 2 stacks of newspaper (a good size Sunday paper will do)
- 4 chairs with backs
- 2 identical sets of books or blocks (for weight)

Divide the Den into two groups. Let an adult help each group if available. Give each group a roll of masking tape and a stack of newspapers. Set up the chairs in pairs about 4 feet apart. Each group must make a bridge using the materials provided that spans from one chair to the other.

After a set amount of time (15 to 20 min), see how much weight each bridge can support without failing. The bridges may be a truss, suspension, or cable stayed bridge, but must span from one chair to the other without touching the ground in between.

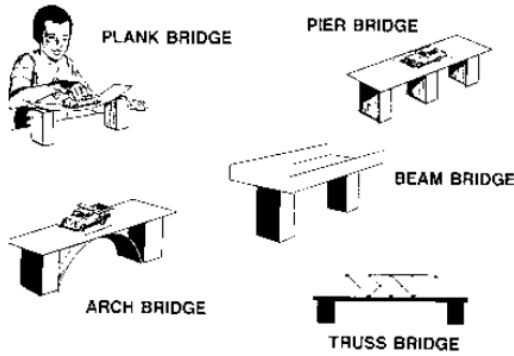
**Gumdrop Truss Bridge**

*Karen, Webelos Leader (and an engineer),  
Pack 23, Suffern, NY*



This is a fun project that illustrates the strength and rigidity of a truss bridge. You will need a box of round toothpicks and a couple of bags of inexpensive gumdrops (or spice drops). Scouts can work as pairs or individuals on this project. Each scout should start by assembling a single triangular panel using 3 gumdrops and 3 toothpicks. (It is important to notice the strength of the triangular shape.) From there they can extend the side panel of the truss by adding more toothpicks and gumdrops.

Once the single truss is about 4 panels long, the scouts can begin the second side truss. The two sides are then connected together by adding toothpicks between matching gumdrop node points. This short bridge span, which is about 8 inches long, will be very stiff and strong. Spanning the bridge between two stacks of books, or the like can test the strength. A cup full of pennies can be used to load the truss. After testing the strength, the scouts can extend the bridge length by adding more pieces. A second level of truss may be added for really long spans (2 ft or more). The scouts will enjoy testing out various different bridge configurations.



**The Right Person for the Job!**

*Annawon, Cape Cod and Islands, and Old Colony Council Pow Wow Book*

Use a word from this list to fill in the correct answer.

- Aeronautics                      Electrical
- Chemical                              Physical
- Computer                              Industrial
- City                                      Mechanical
- Agricultural                          Civil

1. An engineer who designs plants to make water safe to drink - \_\_\_\_\_.
2. An engineer who designs machines in a factory - \_\_\_\_\_.
3. An engineer who tests new processes and checks old ones in a chemical plant - \_\_\_\_\_.
4. An engineer who plans new circuits and directs workers in an electrical plant - \_\_\_\_\_.
5. An engineer who designs and tests new space techniques - \_\_\_\_\_.
6. An engineer who designs and tests new techniques for new equipment for industry - \_\_\_\_\_.
7. An engineer who designs and tests equipment for farmers and ranchers - \_\_\_\_\_.

**Bridges & Machines**

*Annawon, Cape Cod and Islands, and Old Colony Council Pow Wow Book*

Use a word from this list to fill in the correct answer.

- Catapult                              Arch Bridge
- Pulleys                                  Suspension Bridge
- Beam Bridge                              Levers
- Plank Bridge                              Block & Tackle
- Truss Bridge                              Pier Bridge

1. A flat surface over two supports - \_\_\_\_\_
2. A flat surface over three or more supports - \_\_\_\_\_
3. A flat surface over an arched support - \_\_\_\_\_
4. A flat surface with turned up edges - \_\_\_\_\_
5. A bridge with sides made up of a series of triangles - \_\_\_\_\_
6. A bridge that appears to hang from strong strung cables - \_\_\_\_\_
7. A pulley(s) and a rope or cable - \_\_\_\_\_
8. A slingshot or other device used to project something - \_\_\_\_\_

**Rubber Bands & Engineering  
Rubber Band Strength**

*Annawon, Cape Cod and Islands, and Old Colony Council Pow Wow Book*

One of the requirements for engineer is to make a catapult. This requires the use of a rubber band or two, or a piece of tire inner tube. The rubber band is "elastic" and it stretches, but then returns to its original shape. Before using materials in building, engineers must know the characteristics. Does it expand or contract? Is it weak or strong? Does it burn or not?

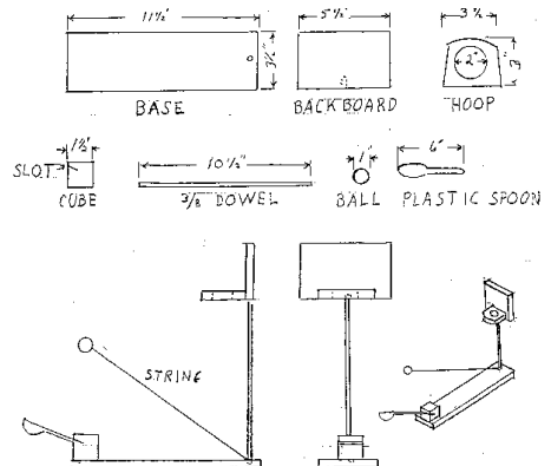
You can try an experiment to learn more of the characteristics of rubber bands and other elastic material. Get a collection of different sized rubber bands. Measure them for length, width and thickness (if you can). Make a chart that shows this information and mark each rubber band clearly so you know which is which. (Using colored rubber bands is best.)

Rubber band	Original			Stretched		
	Length	Width	Thickness	Length	Width	Thickness

With each rubber band, attach one end to a cup hook that is screwed into a board. Attach the other end to a known weight. How far down does each rubber band stretch? Does its thickness change? Does its width change? Which rubber band is the strongest? Which rubber band is the weakest? How can you tell?

**Basketball Catapult**

*Annawon, Cape Cod and Islands, and Old Colony Council Pow Wow Book*



**Instructions**

1. Base, backboard and hoop are made from a 1"x4" board.
2. Drill holes in base and backboard 3/8" diameter and 1/2" deep.
3. Cut a slot at a 15 degree angle in a cube block large enough for the handle of a plastic spoon.
4. Cut hole for the hoop first; then finish cutting the hoop piece. *(We used a slice of 2" diameter PVC pipe and screwed it into backboard.)*
5. Glue the hoop to the backboard; then glue dowel rod into backboard and base.
6. Glue cube block to base and insert spoon into slot.
7. Cut string and attach one end to dowel rod at base and the other end to any 1" sized **ball** (*ping pong balls work well*).

## ATHLETE PHYSICAL SKILLS GROUP

*Sam Houston Area Council*

Athletes persevere to meet their goals. They try to do things that are a little bit harder than what they can do right now. With those goals, they make improvement and become a great athlete as they do their best one little step at a time.

**DEN ACTIVITIES****IDEAS FOR DEN ACTIVITIES**

- ★ Take the den on a short bicycle trip
- ★ Have a tug of war.
- ★ Do exercises as a den.
- ★ Attend a high school or college athletic event.
- ★ Attend a track meet or gymnastic event
- ★ Visit a gym and try out weight lifting equipment.
- ★ Invite a physical education teacher or gymnastics instructor to talk about fitness.

**REMEMBER**

- ✓ When putting boys to any test, the important point is that they do their best!
- ✓ While some in physical feats do excel, some others in mental abilities do well.
- ✓ So don't compare and expect the same of all.
- ✓ Let each set his personal best goal.
- ✓ Give them encouragement and praise their skill, and you'll find they will strive their best to fulfill.

**EXERCISES AND GAMES****AGILITY EXERCISES**

Perform these exercises within the designated time limits. Be sure to rest for two minutes between each set.

**Set 1 – within 8 minutes**

- ✓ Fish Flops – Lie flat on your stomach with arms and legs extended and off the ground. Rock back and forth. Do for two minutes.
- ✓ Grass Drill – Run in place. Drop to the ground and bounce up again for two minutes.
- ✓ Quick foot – Knee Touch – Drop quickly to one knee and bounce up again. Alternate knees for two minutes.

**Set 2 – within 4 minutes**

- ✓ Crab mirror – Two players on all fours. One moves at random to the left, right, back or forward. The other mirrors his moves. Switch leaders at the one minute mark. Do for two minutes.
- ✓ Sit ups – Lie on back with feet together, hands clasped behind head. Rise up and touch elbows to knees. Do as many as possible for one minute.

**FLEXIBILITY EXERCISES**

- ✓ **Fingers** – Extend arms to side, palms down. Quickly flex the fingers by alternating between fist and open hand position. Continue for 30 seconds.
- ✓ **Wrists** – Extend arms to front, palms down, wrists locked. Rotate wrists clockwise, then counterclockwise. Continue for 30 seconds.
- ✓ **Palms** – Same position as wrists. Turn palms inward and outward in quick short movements. Continue for 30 seconds.

**PULL OVER**

This game is similar to tug-of-war – without a rope! Divide the Scouts into pairs. Each pair grasps right hands, braces their feet and each tries to pull the opponent over a center line on the ground. The game may be varied by changing hands.

**GORILLA RELAY**

Webelos Scouts spread their feet shoulder width, then bend down and grasp their ankles. They then walk forward, keeping their knees locked and their legs straight. Divide into teams, and run as a relay over a course of however long you want it to be.

**TORTOISE AND HARE**

Boys are in a circle, about three feet apart, and begin jogging slowly in place. When the leader calls, "Hare," the tempo is stepped up, knees are lifted high, and the arms are pumped vigorously. When the leader calls, "Tortoise," the tempo slows to an easy jog. Make changes swiftly for more fun.

**TREES IN THE WIND**

Boys are in a circle facing counter-clockwise. They run slowly around the circle, bending left, right, forward, and back as though swaying in a breeze. On command, "Reverse," they turn and run in the opposite directions.

**INCHWORM**

Boys assume push-up position. Holding their hands in place, they walk their feet up as close to the hands as possible. Then, holding their feet in place, they "walk" their hands out to push-up position again.

**TIN CAN WALKER RACE**

**Needed:** Several large tin cans and rope

1. Make tin can walkers by punching two holes opposite each other near the tops of the tin cans. Tie ropes in large loops which pass through the holes in the tin cans.
2. Boys stand on cans and hold ropes in hands. Pulling up on the ropes and stepping forward take steps.
3. Try relay races between dens. Using three cans and two boys, (Sharing the middle can) a three-legged race can be run.



**Being Healthy**

*Circle Ten Council*

**Good Health Habits Quiz**

Circle the correct answer(s).

1. Bathe/shower (everyday OR once per week) and especially after exercise.
2. Wash your hair (1/month OR 2+ times/week).
3. Wash hands (before eating OR after using the restroom) and when they're dirty.
4. Eat right - (3 OR 4 OR 6) regular meals each day at regular times!
5. Eat (just some OR a variety of) food from each of the 4 food groups.
6. The average 10 year old should get at least (6 OR 9 OR 12) hours of sleep each night.

**ANSWERS:** 1. Everyday, 2. 2+ times, before eating and after using restroom, 3. 3 meals, 4. Variety, 9 hours

**Clean & Strong**

*Circle Ten Council*

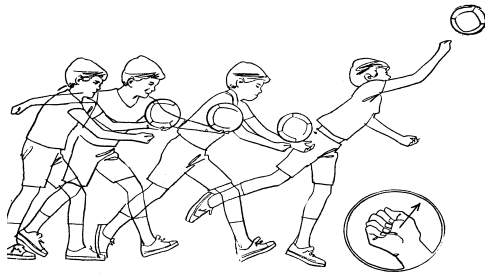
Circle T for True or F for False.

- |   |   |   |
|---|---|---|
| T | F | Our bodies "repair" themselves while we sleep.  |
| T | F | Clean clothes aren't necessary after a bath or shower - they are just in the morning. |
| T | F | Use proper lighting for all activities including reading, TV viewing, and playing.    |
| T | F | Fitness is never just physical - it involves both the mind and body together.         |
| T | F | Stand tall, and walk tall with shoulders back and stomach in.                         |
| T | F | It's OK to share drinking cups, washcloths and towels.                                |
| T | F | Different foods provide different nutrients, and no one food can sustain us.          |
| T | F | Rushing meals or skipping meals can be harmful to your body.                          |

**ANSWER:** 1 - T, 2 - F, 3 - T, 4 - T, 5 - T, 6 - F, 7 - T, 8 - T

**Volleyball Serve it Underhand**

*Circle Ten Council*



The underhand serve is the easiest to master for volleyball. In a game you must put the ball into play from a 10 foot wide area behind the end line. Always practice with a line in front of you so you will learn not to cross it until you have released the ball.

For the underhand serve (if right handed), stands with your left foot about 13" in front of the right foot. Bend both knees a little, lift the ball in both hands out in front of your chest, to your right side. Hold the ball in the left hand and start to bring the right hand down. Close the finger of the right hand as if you were making a loose fist.

Keep your eyes on the ball. Bring right hand down, back, and up behind you. Step a quarter step forward on your left foot. Swing your right hand at ball. Just before you hit it, toss the ball up a little and drop your left hand away from it. (The rules say – release your left hand from the ball before hitting it.) Strike ball solidly with the palm side of your fist and follow through. (Of left handed, reverse from right to left.)

Once you master the serve, try using the heel of hand instead of fist. Close hand instead of your fist. Close your hand half-way so fingertips come just below the base of the fingers with thumb-tip beside the first joint of forefingers

**The Athlete**

*Circle Ten Council*

Tune: My Bonnie

They gave me a suit and a number  
 And sent me out on the field  
 They gave me a ball called the pigskin,  
 And shoes with some cleats, toe and heel

**CHORUS**

Muscles, Cramps, wracking my body with pain, with pain  
 I stand, wondering, if ever I'll do this again!

Next time they gave me a racquet,  
 They sent me out on the court  
 Funny the things you encounter,  
 While trying to learn a new sport.

(CHORUS)

The ordeal was finally over,  
 At least, that's what I thought,  
 When they showed me the soccer equipment  
 I fainted dead on the spot!

(CHORUS)

**Athlete Den Activities**

*Circle Ten Council*

**TOWEL PICKUP** - Take off your shoes and socks. Pick up a towel with your toes.

**PAPER PICKUP** - Pick up a piece of paper from the floor without bending your knees

**BOOK CARRY** - Walk across the room with a book balanced on your head.

**SKIN THE CAT** - Clasp your hands in front of you. Try to step through the ring formed by your hands and finish standing upright with them clasped behind you. Return to your original position by stepping backwards through the ring.

**TOE WRESTLING** - Two wrestlers sit on the floor, facing each other with arms clasped around knees. When they are in this position, place a stick over each person's elbows and under his bent knees. Their feet should be flat on the ground with the toes of one touching the toes of his opponent. The object is for one wrestler to get his toes under the toes of his opponent and roll him over backwards. If either wrestler breaks the handclasp above his knees, the other wins the contest.

**SIDEWALK TENNIS** - Played with a tennis ball on two squares of sidewalk or patch of level ground marked off in similar size. Ball is batted with the hands. Use regular tennis rules, except that there is no serving court

### **SUGGESTIONS FOR COMPLETING ATHLETE ACTIVITY BADGE**

#### **Requirement #1**

Can be combined with the Fitness Activity Badge and the Sportsman Activity Badge. The subjects of being physically healthy, balanced diets, and bad effects of drugs, alcohol, and tobacco can be combined and signed off all together.

#### **Requirement #2**

Takes the longest amount of time to complete and sign off of all the Physical Skills Group. To earn the Physical Fitness Sports Pin, the boy needs to earn 60 points in a 90 day period. They must exercise or be involved in some activity for 30 minutes to earn one point. The boy can earn a maximum of five points in a day. Just remember 30 minutes for one point, 60 points total in a 90 day period.

You can pass off requirements 3 through 9 as part of this pin, use requirement 3 and 4 of the Sportsman badge to meet the requirement.

## **POW WOW EXTRAVAGANZAS**

*Let me know as soon as your date is set. I will post whatever I receive! CD*

### **Southern NJ Council**

#### **Improving Your 'Scoutability'**

January 22, **2011**

Lakeview Middle School, Millville, NJ 08332

Call Southern NJ Council, 856-327-1700, extension 32, or visit the website, [www.snjscouting.org](http://www.snjscouting.org) for more information

## **WEB SITES**



### **Paper Toy Patterns**

*Catalina Council*

Print off the patterns onto card stock. The patterns require Adobe Acrobat, which can be downloaded free off of the Internet.

<http://www.freepapertoys.com/pt-planesfly.html>

<http://freepapertoys.com/pt-planemodel.html>

### **RESOURCE WEBSITES**

*Grand Teton Council*

**Paper airplane folding** is always popular. Most libraries have several good instruction books. Here are some weblinks for internet sites:

For folding instructions:

[www.bestpaperairplane.com](http://www.bestpaperairplane.com)

[www.paperairplanes.co.uk/planes.php](http://www.paperairplanes.co.uk/planes.php)

[www.10paperairplanes.com](http://www.10paperairplanes.com)

For some good science/engineering info on paper airplanes:

[www.paperplane.org/paero.htm](http://www.paperplane.org/paero.htm)

### **Model rocketry:**

From air or water-propelled bottle rockets to the "real thing," boys love to watch and launch rockets.

Here are some good sites

[www.ehow.com/how\\_4521963\\_great-bottle-rocket-designed-distance.html](http://www.ehow.com/how_4521963_great-bottle-rocket-designed-distance.html) ;

[http://space.about.com/od/activities/ss/bottlerocket\\_3.htm](http://space.about.com/od/activities/ss/bottlerocket_3.htm) ;

<http://www.instructables.com/id/Easy-to-build,-easy-to-use,-water-bottle-launcher/> ;

**Kites** are also great fun:

[www.molokai.com/kites/20kidskites.html](http://www.molokai.com/kites/20kidskites.html) ;

[www.howtomakeandflykites.com/](http://www.howtomakeandflykites.com/) ;

[www.wikihow.com/Make-a-Kite-Out-of-a-Plastic-Bag](http://www.wikihow.com/Make-a-Kite-Out-of-a-Plastic-Bag) ;

*Catalina Council*

For the Program helps for Take Flight -

[http://www.scouting.org/filestore/pdf/34409\\_2010\\_03.pdf](http://www.scouting.org/filestore/pdf/34409_2010_03.pdf)

For a list of all the remaining themes -

<http://www.scouting.org/cubscouts/resources/CSMonthlyThemes.aspx>

For links to material that can be used with this theme -

<http://www.scoutingthenet.com/Training/Roundtable/Handouts/>

*Alice, Golden Empire Council*

[www.kidsinflight.org/funfacts.html](http://www.kidsinflight.org/funfacts.html) Some fun facts about flight for kids – Kids in Flight was created to provide aviation related flight events and experiences for seriously ill children and their families, and to educate towards sensitivity in the public (A kind of aviation focus Make A Wish foundation)

[www.avkids.com](http://www.avkids.com) in the Speakers Bureau, you can download six free posters about aviation and get handouts to go with the guide; kid's hanger has games, activities; In the AvKid's Art section you can submit or look at kid's aviation related art – various T-shirts, caps, etc. also available; also links to all kinds of resources in the aviation community

[www.spaceplace.nasa.gov](http://www.spaceplace.nasa.gov) scroll down to Friends Share on the left, then click on Scouting icon – activities of all kinds, even food, keyed to specific ranks, achievements, electives in Cub/Webelos program; also access to some freebies such as posters, activity guides; info. about various space and flight museums; click on "Projects" for directions on a film canister rocket or a tortilla spacecraft.

[www.ct.gov/kids/cwp/view.asp?a=2731&q=330926](http://www.ct.gov/kids/cwp/view.asp?a=2731&q=330926) Great descriptions and illustrations of the principles of flight – how planes fly

[www.bestpaperairplanes.com](http://www.bestpaperairplanes.com) wonderful collection of paper airplane designs and directions

[www.boeing.com/companyoffices/aboutus/kids/](http://www.boeing.com/companyoffices/aboutus/kids/) children of all ages can have fun by solving puzzles and coloring, both online and offline

[www.kidsites.com/sites-edu/science.htm](http://www.kidsites.com/sites-edu/science.htm) all kinds of great patterns and information for various flying creations such as paper helicopters, flying disks, special paper planes

**To "Take Flight" with kids:**

<http://www.drspock.com/article/0,1510,6263,00.html>

Check this one if you want links to travel tips when flying with kids, or how to deal with a child who's afraid of flying

*Utah National Parks*

[www.surfnetkids.com/paperplane.htm](http://www.surfnetkids.com/paperplane.htm)

[www.yellowairplane.com/kidspage.htm](http://www.yellowairplane.com/kidspage.htm)

[www.kites4kids.com.au/](http://www.kites4kids.com.au/)

[www.pbskids.org/zoom/sci/hotairballon.htm](http://www.pbskids.org/zoom/sci/hotairballon.htm)

[www.derbytalk.com](http://www.derbytalk.com)

## ONE LAST THING

### Honey and Vinegar

*My Aunt Betty*

I heard a wonderful illustration the other day. A lady shared it with me. It is so good that I am eager to share it with all of you.

A man placed two identical jars on the table next to the Podium, each filled with a gold colored liquid.

He quoted 1 Samuel 16:7, "But Jehovah said to Samuel:" Do not look at his appearance and at the height of his stature, For not the way man sees is the way God sees, because mere man sees what appears to the eyes; but as for Jehovah he sees what the heart is."

These jars came from the same factory, were made of the same materials, and can hold the same amount. But they are different, "he explained.

Then he upset one and out oozed honey.

He turned over the other, and vinegar spilled out.

When a jar is upset, whatever is in it comes out. Until the jars were upset, they looked alike. The difference lay within, and could not be seen. When they were upset, their contents were revealed.

Until we are upset, we put on a good front. But when we are upset, we reveal our innermost thoughts and attitudes, for "out of the abundance of the heart his mouth speaks" (Luke 6:45).

What if someone tipped you over today?

What would flow out?

Would you reveal the "honey" of self-control and patience, or the "vinegar" of anger and sarcasm? "

*"Above all things, have intense love for one another, because love covers a multitude of sins." (1 Peter 4:8).*

Birds of a Feather  
 Grand Teton Council  
 via Sam Houston Council

Y T V I R E O E V O D H O S P R E Y E H B  
 P R E E I E P A P R E K C E P D O O W E A  
 R K A P E L L U G U L S M Y N A H B R R L  
 A E G N O R E H S A R H T N W O R B I O T  
 H A L V A V Y S N U L P I A C W E R Y N I  
 M D E I B C U I W K R G L N R O I G O K M  
 N R R G A K D L T I H E U E D L L L I W O  
 E I T R O R A E T T F J K N M L I T C P R  
 V B H A A L N E I U C T U C I A E N U M E  
 A G R C A N D N B H R T D W U W R T G G O  
 R N U K I N G F I S H E R Q C S R T N H R  
 E I S L R A R C I A O O I E F E P I I E I  
 H M H E L A K E T N O R B Y G L W A N N O  
 C M R E R A L C P P C E G A A X I N S C L  
 T U E H D E H W P E O H N W A J U C O N E  
 A H C E E S L I O H E A I W O R E N K R N  
 C T E K W A H B P D T R K M D R D U H E E  
 Y E L L O W T H R O A T C A O O C E L T R  
 L T I T M O U S E A W E O D R A Z Z U B W  
 F O N O C L A F R M W R M B O B O L I N K

AUK	BALTIMORE ORIOLE	BLUE JAY	BOBOLINK
BROWN THRASHER	BUZZARD	CANARY	CARDINAL
CHICKADEE	CONDOR	CREEPER	CROW
CUCKOO	DOVE	EAGLE	EMU
FALCON	FLICKER	FLYCATCHER	GOLDFINCH
GRACKLE	GROSBEAK	GULL	HARPY
HAWK	HERON	HUMMINGBIRD	JUNCO
KEA	KINGFISHER	KITE	LINNET
MAGPIE	MEADOWLARK	MOA	MOCKINGBIRD
MYNAH	NIGHTINGALE	NUTHATCH	OSPREY
PHOEBE	PIGEON	PLOVER	PURPLE MARTIN
QUAIL	RAIL	RAVEN	RHEA
ROADRUNNER	ROBIN	SAPSUCKER	SPARROW
STARLING	SWALLOW	SWIFT	TANAGER
TERN	THRUSH	TITMOUSE	VEERY
VIREO	VULTURE	WARBLER	WAXWING
WHIPPOORWILL	WREN	WOODPECKER	YELLOWTHROAT