



Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor. You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Boy Scout Requirements (Pub. 33216 – SKU 621535).

The requirements were first issued in 2013 • This workbook was updated in October 2016.

Scout's Name:			_ Unit:	
Co	unselor's	s Name: Co	Counselor's Phone No.:	
	Comr	http://www.USScouts.Org • http:// Please submit errors, omissions, comments or suggestions about an annual property of the merit	this <u>workbook</u> to: <u>Workbooks@USScouts.Org</u>	
	There	For requirements 5-7, your work should be record efore, all we've provided for those requirements bel ress on the various portions of the requirements.	· · · · · · · · · · · · · · · · · · ·	
1.	Do the	e following:		
	☐ a.	Analyze four games you have played, each from a different rules, resources, and theme (if relevant). Discuss with your came, and what you dislike.		
		Make a chart to compare and contrast the games. (Note: You can put the chart on the back of these pages or o	on a separate sheet.)	

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Game 1	
Medium	
Player Format	
Objectives	
Rules	
Resources	
Theme	
Discuss the play e	experience, what you enjoy and what you dislike.

Game2 Medium Player Format Objectives Rules Resources Theme $\underline{\text{D}}\underline{\text{iscuss}}$ the play experience, what you enjoy and what you dislike.

Scout's Name: _

Game Design

Game 3 Medium Player Format Objectives Rules Resources Theme $\underline{\text{D}}\underline{\text{iscuss}}$ the play experience, what you enjoy and what you dislike.

Scout's Name: _

Game Design

Game 4 Medium Player Format Objectives Rules Resources Theme $\underline{\text{D}}\underline{\text{iscuss}}$ the play experience, what you enjoy and what you dislike.

Scout's Name: _

Game Design

	Type of Play Value	Example
scuss other reason	ons people play games.	
s with your couns	selor five of the following 17 game design t	erms. For each term that you pick, describe how it i
ecific game. tic game elemen	ts:	
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2.

Gamenla	ay elements:
	play sequence,
	level design,
	interface design
Game ar	
	difficulty,
	balance,
_	
Ш	depth,

Game Design	Scout's Name:
	pace,
	replay value,
	age appropriateness
Related	
	single-player vs. multiplayer,
	cooperative vs. competitive,
	turn-based vs. real-time,

strategy vs. reflex vs. chance. abstract vs. thematic Define the term intellectual property. Describe the types of intellectual property associated with the game design industry. Describe how intellectual property is protected and why protection is necessary.		stratogy vs. reflex vs. chance
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	Describ	e the types of intellectual property associated with the game design industry.
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Define and give an example of a licensed property.	Describ	e now intellectual property is protected and why protection is necessary.
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	a.	Pick a game wher	re the players can change the rules or objectives (examples: basketball, hearts, chess, kickball).
		Game:	
		Briefly summarize	e the standard rules and objectives and play through the game normally.
_			
	b.	Propose changes	to several rules or objectives.
		Predict how each	change will affect gameplay.
_			
Ш	C.	Play the game wit affected by the rul	th one rule or objective change, observing how the players' actions and emotional experiences are le change.
		Rule Change:	
		Observations:	
		Observations:	

Game Design Scout's Name:			n Scout's Name:		
•	Do the following:				
6.					
		a.	Prototype your game from requirement 5. If applicable, demonstrate to your counselor that you have addressed player safety through the rules and equipment.		
			You must have your merit badge counselor's approval of your concept before you begin creating the prototype.		
		b.	Test your prototype with as many other people as you need to meet the player format.		
			Compare the play experience to your descriptions from requirement 5b.		
			Correct unclear rules, holes in the rules, dead ends, and obvious rule exploits.		
			Change at least one rule, mechanic, or objective from your first version of the game, and describe why you are making the change.		
			Play the game again.		
			Record whether or not your change had the expected effect.		
		C.	Repeat 6b at least two more times.		
			First repetition:		
			Test your prototype with as many other people as you need to meet the player format.		
			Compare the play experience to your descriptions from requirement 5b.		
			Correct unclear rules, holes in the rules, dead ends, and obvious rule exploits.		
			Change at least one rule, mechanic, or objective from your first version of the game, and describe why you are making the change.		
			Play the game again.		
			Record whether or not your change had the expected effect.		
			Second repetition:		
			Test your prototype with as many other people as you need to meet the player format.		
			Compare the play experience to your descriptions from requirement 5b.		
			Correct unclear rules, holes in the rules, dead ends, and obvious rule exploits.		
			Change at least one rule, mechanic, or objective from your first version of the game, and describe why you are making the change.		
			Play the game again.		
			Record whether or not your change had the expected effect.		
7.	Blin	d tes	st your game. Do the following:		
		a.	Write an instruction sheet that includes all of the information needed to play the game.		
			Clearly describe how to set up the game, play the game, and end the game.		
			List the game objectives.		
		b.	Share your prototype from requirement 6a with a group of players that has not played it or witnessed a previous playtest.		
			Provide them with your instruction sheet(s) and any physical components.		
			Watch them play the game, but do not provide them with instruction.		
			Record their feedback in your game design notebook.		
		C.	Share your game design notebook with your counselor.		

Game Design		sign	Scout's Name:	
			Discuss the player reactions to your project and what you learned about the game design process.	
			Based on your testing, determine what you like most about your game and suggest one or more changes.	
8.	Do Ol	NE	of the following:	
			With your parent's permission and your counselor's approval, visit with a professional in the game development industry and ask him or her about his or her job and how it fits into the overall development process. Alternately, meet with a professional in game development education and discuss the skills he or she emphasizes in the classroom.	

Game Desig	n Scout's Name:
□ b.	List three career opportunities in game development
	1.
	2.
	3.
	Pick one and find out the education, training, and experience required for this profession.
	Career:
	Education:
	Training:
	Experience:
	Discuss this with your counselor. Explain why this profession might interest you

Requirement resources can be found here: http://www.meritbadge.org/wiki/index.php/Game Design#Requirement resources

Note to the Counselor:

The project portion of the Game Design merit badge gives Scouts flexibility to work with a medium of their choosing. The level of effort required to make a game in different mediums can vary significantly. However, the requirements define what each Scout must include in his design notebook so that there is a baseline for all Scouts to meet.

The notebook must demonstrate a thoughtful initial concept, multiple design iterations based on initial testing, and feedback from blind testing. Encourage Scouts to use their notebook to record brainstorming sessions, test parameters, and any game-related ideas throughout the process. Also encourage them to record thoughts behind key design decisions to help them trace and retrace their steps as their designs evolve.

Before a Scout begins the prototyping phase, he must have counselor approval for his design concept. The counselor must make sure that he has put enough effort into the concept phase to have a good foundation for the prototype phase. Watch out for overly ambitious projects that could lead to unnecessary frustration. It is important to understand that the Scout is making a prototype. The challenge of the project is to develop and experiment with gameplay, not to develop extensive programming skills, create beautiful artwork, or spend a lot of time fabricating components.

When prototyping, Scouts should devote most of their energy to assessing and improving the play experience. With each iteration, Scouts should identify game elements that they want to change and how the changes will alter the play experience. After making changes, they then test the game and evaluate whether or not the changes had the desired outcome. It is acceptable for the final prototype to be very different from the initial concept, provided that the notebook shows the progression.

Because the project is so flexible, it is likely that you will have Scouts working in mediums with which you are unfamiliar. The game design community has a vast array of publicly available resources, and the merit badge information online at www.scouting.org maintains updated links to relevant material. If you have a specific concern about programming an electronic game prototype, there are a number of free or inexpensive game design software packages available online. Some are very easy to use with little or no computer knowledge, and most have robust information resources to support them. See the resources section at the end of (the) pamphlet.

The merit badge includes many opportunities for teamwork and group play. Group participation is mandatory to complete requirement 7, but all of the other nonproject requirements also work well in collaboration. Note, though, that each Scout must deliver his own game prototype to complete the project. This ensures that every Scout has the chance to develop and use the critical thinking skills that are part of testing and design iteration. If they want to collaborate on their projects after completing the requirements for the badge they are encouraged to do so, but that is beyond the scope of this badge.

The Game Design merit badge relies heavily on specific terminology. Because game design is broad and game analysis is relatively young, there are few established definitions in the industry. Please refer to the glossary at the end of (the) pamphlet for definitions applicable to the pamphlet and requirements. For additional questions, refer to the merit badge website and the resources listed at the end of the pamphlet.

Important excerpts from the Guide To Advancement - 2015, No. 33088 (SKU-620573)

[1.0.0.0] — Introduction

The current edition of the *Guide to Advancement* is the official source for administering advancement in all Boy Scouts of America programs: Cub Scouting, Boy Scouting, Venturing, and Sea Scouts. It replaces any previous BSA advancement manuals and previous editions of the *Guide to Advancement*.

[Page 2, and 5.0.1.4] — Policy on Unauthorized Changes to Advancement Program

No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements. There are limited exceptions relating only to youth members with special needs. For details see section 10, "Advancement for Members With Special Needs".

[Page 2] — The "Guide to Safe Scouting" Applies

Policies and procedures outlined in the *Guide to Safe Scouting*, No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects.

[7.0.3.1] — The Buddy System and Certifying Completion

A youth member must not meet one-on-one with an adult. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative—or better yet, another Scout working on the same badge—along with him attending the session. If merit badge counseling or instruction includes any Web-based interaction, it must be conducted in accordance with the BSA Social Media Guidelines (http://www.scouting.org/Marketing/Resources/SocialMedia). For example, always copy one or more authorized adults on email messages between counselors and Scouts.

When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult verification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

Note that from time to time, it may be appropriate for a requirement that has been met for one badge to also count for another. See "Fulfilling More Than One

[7.0.3.2] — Group Instruction

Requirement With a Single Activity," 4.2.3.6.

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways, fairs, clinics, or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout —actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions.

It is sometimes reported that Scouts who have received merit badges through group instructional settings have not fulfilled all the requirements. To offer a quality merit badge program, council and district advancement committees should ensure the following are in place for all group instructional events.

- A culture is established for merit badge group instructional events that partial completions are acceptable expected results.
- A guide or information sheet is distributed in advance of events that promotes the acceptability of partials, explains how merit badges can be finished after
 events, lists merit badge prerequisites, and provides other helpful information that will establish realistic expectations for the number of merit badges that can be
 earned at an event.
- Merit badge counselors are known to be registered and approved.
- Any guest experts or guest speakers, or others assisting who are not registered and approved as merit badge counselors, do not accept the responsibilities of, or behave as, merit badge counselors, either at a group instructional event or at any other time. Their service is temporary, not ongoing.
- Counselors agree to sign off only requirements that Scouts have actually and personally completed.
- Counselors agree not to assume prerequisites have been completed without some level of evidence that the work has been done. Pictures and letters from other merit badge counselors or unit leaders are the best form of prerequisite documentation when the actual work done cannot be brought to the camp or site of the merit badge event.
- There is a mechanism for unit leaders or others to report concerns to a council advancement committee on summer camp merit badge programs, group
 instructional events, and any other merit badge counseling issues—especially in instances where it is believed BSA procedures are not followed. See
 "Reporting Merit Badge Counseling Concerns," 11.1.0.0.
- There must be attention to each individual's projects and his fulfillment of all requirements. We must know that every Scout—actually and personally—completed them.

It is permissible for guest speakers, guest experts, or others who are not merit badge counselors to assist in the counseling process. Those providing such assistance must be under the direction of a registered and approved counselor who is readily available onsite, and provides personal supervision to assure all applicable BSA policies and procedures—including those related to BSA Youth Protection—are in place and followed.

[7.0.3.3] — Partial Completions

A Scout need not pass all the requirements of one merit badge with the same counselor. It may be that due to timing or location issues, etc., he must meet with a different counselor to finish the badge. The Application for Merit Badge has a place to record what has been finished—a "partial." In the center section on the reverse of the blue card, the counselor initials for each requirement passed. In the case of a partial completion, the counselor does not retain his or her portion of the card. A subsequent counselor may choose not to accept partial work, but this should be rare. A Scout, if he believes he is being treated unfairly, may work with his unit leader to find another counselor. An example for the use of a signed partial would be to take it to camp as proof of prerequisites. Partials have no expiration except the Scout's 18th birthday. Units, districts, or councils shall not establish other expiration dates for partial merit badges.

[7.0.4.8] — Unofficial Worksheets and Learning Aids

Worksheets and other materials that may be of assistance in earning merit badges are available from a variety of places including unofficial sources on the Internet and even troop libraries. Use of these aids is permissible as long as the materials can be correlated with the current requirements that Scouts must fulfill. Completing "worksheets" may suffice where a requirement calls for something in writing, but this would not work for a requirement where the Scout must discuss, tell, show, or demonstrate, etc. Note that Scouts shall not be required to use these learning aids in order to complete a merit badge.