

Inventing





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

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

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.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub.# 33216) and/or on Scouting.org.

The requirements were last issued or revised in 2023 • This workbook was updated in November 2023.

t's Name:	Unit	Date Started
nselor's Name:	Phone No.:	Email:
Comments or suggestion		t this <u>workbook</u> to: <u>Workbooks@USScouts.Org</u> <u>it badge</u> should be sent to: <u>Merit.Badge@Scouting.Org</u>
	define inventing.	
Then do the following		
a. Explain to the United		tors and their inventions in the economic developmen

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	b.	Lis	t three inventions	and how they have helped humankind.
		1.		
		2.		
		3.		
2.	Do ONE	E of t	the following:	
	☐ a.	lde ap _l	entify and interview	with a buddy (and with your parent or guardian's permission and merit badge counselor's all in your community who has invented a useful item. Report what you learned to your
	□ b.	Re	ad about three inv	rentors.
		1.		
		0		
		2.		
		3.		
		3.	lect the one you fir	nd most interesting and tell your counselor what you learned.
		3.	lect the one you fir	nd most interesting and tell your counselor what you learned.
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Inventing Scout's Name: _____

3.	Dο	EACH	of the	e follo	wina
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a.

Define the term intellectual property.
Explain which government agency oversees the protection of intellectual property, the types of intellectual property that can be protected, how such property is protected, and why protection is necessary.
Which government agency:
The types of intellectual property that can be protected:
The types of mismostati property that sail we protected.
How such property is protected:
Why protection is necessary:
with protection is necessary.

Inventing		Scout's Name:
·	b.	Explain the components of a patent and the different types of patents available.
		Components:
		Types of patents available:
	C.	Examine your Scouting gear and find a patent number on a camp item you have used.
		With your parent's permission, use the Internet to find out more about that patent.

Inventing	Scout's Name:
-	Compare the finished item with the claims and drawings in the patent. Report what you learned to your counselor.
d.	Explain the term patent infringement.
4. Discuss explain	with your counselor the types of inventions that are appropriate to share with others without protecting and why.
Tell you	r counselor about oneunpatented invention and its impact on society.

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Think of commun										at w	oulc	SC	ive		obie					р, с	nart	erec	or	gar	ıızaı	tior
Then do	o EACH of the following, while keeping a notebook to record your progress:																									
	Talk to potential users of your invention and determine their needs.																									
a.	Talk to potential users of your invention and determine their needs.																									
																ام										
	Then, based on what you have learned, write a proposal about the invention and how it would help solv problem.																									
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Inventir	ng	Scout's Name:
		Create a model of the item using clay, cardboard, or any other readily available material.
		List the materials necessary to build a working prototype of the item.
	C.	Share the idea and model with your counselor and potential users of your invention. Record their feedback in you
		notebook.
7 .	Build a v	working prototype of the item you invented for requirement 6*, then test and evaluate the invention. Among the to consider in your evaluation are cost, usefulness, marketability, appearance, and function.
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	0001.	
	Usefulne	988:
	Marketa	bility:
	Appeara	ance:
	Function	n.
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venting	Scout's Name:
Descril counse	be how your initial vision and expectations for your idea and the final product are similar or dissimilar. Have your elor evaluate and critique your prototype.
	e you begin building the prototype, you must share your design and building plans with your counselor and have bunselor's approval
8. Do ON	E of the following:
□ a.	Participate in an invention, science, engineering, or robotics club or team that builds a useful item. Share your experience with your counselor.
	Visit a museum or exhibit dedicated to an inventor or invention, and create a presentation of your visit to share with a group such as your troop or patrol.

Discuss with your c	ounselor the diverse skills, education, training, and experience it takes to be an inventor.
Discuss how you ca	n prepare yourself to be creative and inventive to solve problems at home, in school, and in you
community.	
D: //	
Discuss three caree	r fields that might utilize the skills of an inventor.
1.	
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2.	
3.	
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Scout's Name: _

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.

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