

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. 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 637685).

The requiremen	nts were last issued or revised in 2017	This workbook was updated in <u>June 2017.</u>
Scout's Name:		Unit:
Counselor's Name:		
Please submit error	http://www.USScouts.Org • rs, omissions, comments or suggestions for changes to the requirements for the	http://www.MeritBadge.Org s about this workbook to: Workbooks@USScouts.Org e merit badge should be sent to: Merit.Badge@Scouting.Org
In your own words, de	En a las castina	
Then do the following:		
a. Explain to you the United St		inventors and their inventions in the economic development of

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b.	List three inventions ar	nd how they have helped humankind.
	1.	
	2.	
	3.	
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Do ON	E of the following:	
□ a.	Identify and interview v	with a buddy (and with your parent's permission and merit badge counselor's approval) ar nunity who has invented a useful item. Report what you learned to your counselor.
	marriadar iii yodi comi	manify who has invented a assist hem. Proport what you learned to your counselor.
□ b.	Read about three inve	ntors.
_		I most interesting and tell your counselor what you learned.
	Do ONI	1.

Inventing

Scout's Name: _____

Inventing		Scout's Name:
	o EACI	H of the following:
	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:
		How such property is protected:
		Trow such property is protected.
		Why 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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Then do	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 t	o po	oter	ılla	i us	ers	OI y	our	inve	nuc	n a	na (jete	IIIIII	e in	eir	nee	us.								
	Then, hased on what you have learned, write a proposal about the invention and how it would halp or															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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Inventin	g	Scout's Name:
	b.	Create a model of the item using clay, cardboard, or any other readily available material.
		List the materials necessary to build a prototype of the item.
	C.	Share the idea and model with your counselor and potential users of your invention. Record their feedback in your notebook.
7 .	Build a aspects	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.
	Cost:	
	Usefuln	ess:
	Marketa	ibility:
	Appeara	ance:
	Function	n:

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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