INVENTING MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Inventing merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/inventing/

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Name:	
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REQUIREMENT 1: In your own words, define <i>inventing</i> . Then do the following:	
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REQUIREMENT 1 A: Explain to your merit badge counselor the role of inventors and their in	ventions in the economic
development of the United States.	

REQUIREMENT 2: Do ONE of the following: REQUIREMENT 2: Do ONE of the following: REQUIREMENT 2 A: Identify and interview with a buddy (and with your parent's permission and merit badge counselor's approval) an individual in your community who has invented a useful item. Report what you learned to your counselor.	DECLUDEMENT 1 D. List three inventions and state how they have helped hymanlyind
REQUIREMENT 2 A: Identify and interview with a buddy (and with your parent's permission and merit badge counselor's	REQUIREMENT 1 B: List three inventions and state how they have helped humankind.
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	REQUIREMENT 2: Do ONE of the following:
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approval, an individual in your community who has invented a ascrar term report what you rearried to your counscion.	
	approval, all marviadar in your community who has invented a ascial term. Report what you learned to your coanselor.

REQUIREMENT 2 B: Read about three inventors. Select the one you find most interesting and tell your counselor wha you learned.
Three inventors
The one you find most interesting
REQUIREMENT 3: Do EACH of the following:
REQUIREMENT 3 A: Define the term intellectual property. Explain which government agencies oversee the protection of
intellectual property, the types of intellectual property that can be protected, how such property is protected, and why
protection is necessary.
Intellectual property
Government agencies

Types of intellectual property that can be prortected	
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How intellectual property is protected	
Why protection is necessary	
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REQUIREMENT 3 B: Explain the components of a patent and the different types of patents available.	
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REQUIREMENT 3 C: Examine your Scouting gear and find a patent number on a camping item you have used. With y parent's permission, use the internet to find out more about that patent. Compare the finished item with the claims drawings in the patent. Report what you learned to your counselor.	your and
	h
REQUIREMENT 3 D: Explain to your counselor the term patent infringement.	
	6
REQUIREMENT 4: Discuss with your counselor the types of inventions that are appropriate to share with others, explain why. Tell your counselor about one unpatented invention and its impact on society.	and
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REQUIREMENT 5: Choose a commercially available product that you have used on an overnight camping trip with your troop. Make recommendations for improving the product, and make a sketch that shows your recommendations. Discuss your recommendations with your counselor.

Chatab that above an arrange and the		
Sketch that shows your recommendations		

REQUIREMENT 6: Think organization, community, your progress.	of an item you would lik or a special-interest gro	ce to invent that would oup. Then do EACH of t	solve a problem for your he following, while keep	r family, troop, chartered ing a notebook to record
REQUIREMENT 6 A: Talk	to notential users of ve	our invention and deter	mine their needs. Then	hased on what you have
learned, write a statemen a detailed sketch of the in	t describing the invention	on and how it would he	p solve a problem. This s	statement should include
REQUIREMENT 6 B: Creathe materials necessary to	ate a model of the inve	ntion using clay, cardb	oard, or any other readil	y available material. List
Completed	a nonling protecty	p-2-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		

REQUIREMENT 6 C: Sha feedback in your noteboo	are the idea and the model with you k.	ur counselor and potential users	of your invention. Record their

REQUIREMENT 7: Build a working prototype of the item you invented for requirement 6*. Test and evaluate the invention. Among the aspects to consider in your evaluation are cost, usefulness, marketability, appearance, and function. Describe how your original vision and expectations for your invention are similar or dissimilar to the prototype you built. Have your counselor evaluate and critique your prototype.			
your counselor's approval, based on the design and building			
Counselor evaluated and critiqued your prototype			
Tested the invention			
4			
rototype			

REQUIREMENT 8: Do ONE of the following:

REQUIREMENT 8 A: Participate with a club or team (robotics team, science club, or engineering club) that builds a useful item. Share your experience with your counselor.
REQUIREMENT 8 B: Visit a museum or exhibit dedicated to an inventor or invention, and create a presentation of you visit to share with a group such as your troop or patrol.

REQUIREMENT 9: Discuss with your counselor the diverse skills, education, training, and experience it takes to be an inventor. Discuss how you can prepare yourself to be creative and inventive to solve problems at home, in school, and in your community. Discuss three career fields that might utilize the skills of an inventor.
Skills, education, training, and experience
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How you can prepare yourself to be creative and inventive to solve problems
now you can prepare yourself to be creative and inventive to solve problems
Three career fields
Three career fields