## **DIGITAL TECHNOLOGY MERIT BADGE WORKBOOK**

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

Consider also using the Digital Technology merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (<u>online</u> or <u>in-person</u>).

https://scoutmasterbucky.com/merit-badges/digital-technology/

Scout's
Name:
REQUIREMENT 1: Show your counselor your current, up-to-date Cyber Chip.
Completed
REQUIREMENT 2: Do the following:
<b>REQUIREMENT 2 A:</b> Give a brief history of the changes in digital technology over time. Discuss with your counselor how digital technology in your lifetime compares with that of your parent's, grandparent's, or other adult's lifetime.
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How digital technology in your lifetime compares with that of your parent's, grandparent's, or other adult's lifetime

REQUIREMENT 2 B: Describe what kinds of computers or devices you imagine might be available when you are an adult
REQUIREMENT 3: Do the following:

<b>REQUIREMENT 3 A:</b> Explain to your counselor how text, sound, and pictures are digitized for storage.	
How text is digitized for storage	
	,
How sound is digitized for storage	
How pictures are digitized for storage	
How videos are digitized for storage	
	e e

<b>REQUIREMENT 3 B:</b> Describe the difference between lossy and lossless data compression, and give an example veach might be used.	where
Difference between lossy and lossless data compression	
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	h
An example where each might be used	
	li
<b>REQUIREMENT 3 C:</b> Describe two digital devices and how they are made more useful by their programming.	

REQUIREMENT 3 D:	Discuss the sim	ilarities and diff	erences betwee	n computers,	mobile devices,	and gaming cons	oles.
REQUIREMENT 3 E: wide area network (W.	Explain what a AN).	computer netwo	ork is and the di	fference betw	een a local area	network (LAN) v	ersus a
							li
REQUIREMENT 4: Do	the following:						
REQUIREMENT 4: DO	the following.						
<b>REQUIREMENT 4 A:</b> memory to execute it.		program or so	ftware applicati	on or "app" i	s and how a co	mputer uses a C	PU and
							<i>l</i> .

<b>REQUIREMENT 4</b> helps you.	B: Name	four software	programs or	r mobile	apps y	ou or	your	family	use,	and	explain	how	each	one
neips you.														
														/

<b>REQUIREMENT 4 C:</b> Describe what malware is, and explain how to protect your digital devices and the information on them.	stored
	,
REQUIREMENT 5: Do the following:	
<b>REQUIREMENT 5 A:</b> Describe at least two different ways data can be transferred through the internet.	
	l.
<b>REQUIREMENT 5 B:</b> Using an internet search engine (with your parent's permission), find ideas about how to controop court of honor or campfire program. Print out a copy of the ideas from at least three different websites. Sharyou found with your counselor, and explain how you used the search engine to find this information.	nduct a re what
	6
<b>REQUIREMENT 5 C:</b> Use a web browser to connect to an HTTPS (secure) website (with your parent's permission). to your counselor how to tell whether the site's security certificate can be trusted, and what it means to use this connection.	Explain kind of

<b>REQUIREMENT 6:</b> Do THREE of the following. For each project you complete, copy the files to a backup device and share the finished projects with your counselor.
<b>REQUIREMENT 6 A:</b> Using a spreadsheet or database program, develop a food budget for a patrol weekend campout OR create a troop roster that includes the name, rank, patrol, and telephone number of each Scout. Show your counselor that you can sort the roster by each of the following categories: rank, patrol, and alphabetically by name.
Completed
REQUIREMENT 6 B: Using a word processor, write a draft letter to the parents of your troop's Scouts, inviting them to a
troop event.
Completed
<b>REQUIREMENT 6 C:</b> Using a graphics program, design and draw a campsite plan for your troop OR create a flier for an upcoming troop event, incorporating text and some type of visual such as a photograph or an illustration.
Completed
DECITION NET 6 De Using a procentation software program develop a report about a tenis approved by your assession
<b>REQUIREMENT 6 D:</b> Using a presentation software program, develop a report about a topic approved by your counselor. For your presentation, create at least five slides, with each one incorporating text and some type of visual such as a photograph or an illustration.
Completed
<b>REQUIREMENT 6 E:</b> Using a digital device, take a picture of a troop activity. Send or transfer this image to a device where it can be shared with your counselor.
Completed
REQUIREMENT 6 F: Make a digital recording of your voice, transfer the file to a different device, and have your counselor
play back the recording.
Completed
<b>REQUIREMENT 6 G:</b> Create a blog and use it as an online journal of your Scouting activities, including group discussions and meetings, campouts, and other events. Include at least five entries and two photographs or illustrations. Share your blog with your counselor. You need not post the blog to the internet; however, if you choose to go live with your blog, you must first share it with your parents AND counselor AND get their approval.
Completed
<b>REQUIREMENT 6 H:</b> Create a webpage for your troop, patrol, school, or place of worship. Include at least three articles
and two photographs or illustrations. Include at least one link to a website of interest to your audience. You need not post the page to the internet; however, if you decide to do so, you must first share the webpage with your parents AND counselor AND get their approval.
Completed
REQUIREMENT 7: Do the following:

REQUIREMENT 7 A: trademarks, trade second	Explain	to your	counselor	each	of these	protections	and	why	they	exist:	copyright,	patents,
Copyright	ets.											
Сорупунс												
Patents												
Trademarks												
Trade secrets												
												/.

<b>REQUIREMENT 7 B:</b> Explain when it is permissible to accept a free copy of a program from a friend.
<b>REQUIREMENT 7 C:</b> Discuss with your counselor an article or (with your parent or guardian's permission) a report on the
internet about a recent legal case involving an intellectual property dispute.
REQUIREMENT 8: Do TWO of the following:
REQUIREMENT 8 A: Describe why it is important to properly dispose of digital technology. List at least three dangerous
chemicals that could be used to create digital devices or used inside a digital device.
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Why it is important to properly dispose of digital technology
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<b>REQUIREMENT 8 B:</b> hardware or devices.	Explain to your cou	nselor what is requ	ired to become a	certified recycler	of digital technology
REQUIREMENT 8 C: devices for repurposin					
					10
REQUIREMENT 8 D: happens to that waste	Visit a recycling ce . Share what you lear	nter that disposes oned with your couns	of digital technolo elor.	gy hardware or de	vices. Find out what
<b>REQUIREMENT 8 E:</b> you have learned with	Find a battery recycling your counselor about	ng center near you the proper methods	and find out what for recycling batt	it does to recycle beries.	patteries. Share what

REQUIREMENT 9 A: Investigate three career opportunities that involve digital technology. Pick of	ne and find out the
education, training, and experience required for this profession. Discuss this with your counselor, a	and explain why this
profession might interest you.  Three career opportunities that involve digital technology	
Three cureer opportunities that involve digital technology	
	4
Education, training, and experience required for one profession	
<b>REQUIREMENT 9 B:</b> Visit a business or an industrial facility that uses digital technology. Descritechnology is being used there. Share what you learned with your counselor.	be four ways digital
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