



## 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

#### 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 January 2023.

Scout's Name:						Unit:		
Counselor's Name:								
Please submit errors, omissions, comments or suggestions about this <u>wo</u> Comments or suggestions for changes to the <u>requirements</u> for the <u>merit badge</u>								
□ 1. 2. □		Note: the follow	A workbook in requirements wing:	current, up-to-date for the Boy Scout Cos for the Cyber Chip the changes in dig	Cyber Chip is at o for Boy Scouts	s, depending on		t. There are 2 sets of or 9-12)
				nselor how digital t er adult's lifetime.	echnology in yo	our lifetime comp	pares with that of y	our parent's,
	b.	Describe	e what kinds o	of computers or dev	rices you imagir	ne might be avai	lable when you are	e an adult.

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3.	Do i	the following Explain to	_	lor how tex	t, sound, and pictures are	digitized for storage.	
		Text					
		Sound					
		Pictures					
	b.	Describe to used.	he difference	between I	ossy and lossless data com	npression, and give an example wh	nere each might be
		Lossy					
			Example:				
		Lossless					
			Example:				
	C.		wo digital dev	vices and h	ow they are made more us	seful by their programming.	
		1.					

Digital Technolog	gy		Scout's Name:				
2.							
d. Dis	scuss the s		nputers, mobile devices, and gaming consoles.				
	Г	similarities	differences				
Со	mputers						
Ma	اناد						
	obile vices						
Ga	aming						
CO	nsoles						
	<u> </u>						

Share what you found with your counselor, and explain how you used the search engine to find this information.

	C.	Use a Web browser to connect to an HTTPS (secure) website (with your parent's permission).  Explain to your counselor how to tell whether the site's security certificate can be trusted, and what it means to use this kind of connection.
6.		THREE of the following. For each project you complete, copy the files to a backup device and share the finished lects with your counselor.
	a.	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.
	b.	Using a word processor, write a draft letter to the parents of your troop's Scouts, inviting them to a troop event.
	C.	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.
	d.	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.
	e.	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.
	f.	Make a digital recording of your voice, transfer the file to a different device, and have your counselor play back the recording.
	g.	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.
	h.	Create a Web page 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 Web page with your parents AND counselor AND get their approval.

Scout's Name:

Digital Technology

b. Explain when it is permissible to accept a free copy of a program from a friend.

Trade secrets

		Discuss with your counselor an article or (with your parent of guardian's permission) a report on the internet about a recent legal case involving an intellectual property dispute.
8.		ΓWO of the following:
Ш	a.	Describe why it is important to properly dispose of digital technology.
Ш		List at least three dangerous chemicals that could be used to create digital devices or used inside a digital device.
		1.
		2.
	h	3.
Ш	b.	Explain to your counselor what is required to become a certified recycler of digital technology hardware or devices.
	•	Do an internet course for an erganization that collects disparded digital technology hardware or devices for
Ш		Do an Internet search for an organization that collects discarded digital technology hardware or devices for repurposing or recycling. Find out what happens to that waste. Share with your counselor what you found.

Scout's Name: \_\_\_\_\_

d			ng center that disposes of digital technology hardware or devices. Find out what happens to that waste. ou learned with your counselor.
□ e			recycling center near you and find out what it does to recycle batteries. Share what you have learned nselor about the proper methods for recycling batteries.
9. D	1O o	NE of the fol	lowing:
□ a	. Ir	vestigate th	ree career opportunities that involve digital technology
	1		
	2		
	3		
			find out the education, training, and experience required for this profession.
		Career:	
	E	ducation:	
	т	raining:,	
	'	rairiirig.,	

Scout's Name: \_\_\_\_\_

	Experience:
	Discuss this with your counselor, and explain why this profession might interest you. Report what you learn to your counselor.
□ b.	Visit a business or an industrial facility that uses digital technology.
	Describe four ways digital technology is being used there.
	1.
	2.
	3.
	4.

Scout's Name:

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 <a href="http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf">http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf</a>.

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Digital Technology



### Scouts BSA Cyber Chip Workbook



This Workbook can help you organize your thoughts as you prepare to meet with your 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.

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The requirements were last issued or revised in 2020 • This workbook was updated in June 2020.

Scout's	: Name:		I Init·		
				Email:	
Con	Please submit errors,		ns about this <u>workbo</u>	ritBadge.Org bok to: Workbooks@USScouts.Org nt to: Advancement.Team@Scouting.Org	
	yber Chip Requi	rements for Grades 6- el II Internet Safety Pledge on the	-8	card. (BSA Cyber Chip green card; can be	
		Internet	Safety Pledge		
		r people online al media ownership to-face with anyone I meet in the	digital world unles:	s I have my parent's permission	
<u> </u>	0 1	nalized contract with your parent or you can download, what you can	•	itlines rules for using the computer and mobile uences for inappropriate use.	
	General comments				
	What I can download				

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	What I can post		
	Consequences for inappropriate use		
<u> </u>			riendOrFake), along with two additional videos of your list below}, to see how friends can help each other to stay
		e Private (youtu.be/mBsoODqfQqA)	
		<mark>isions (youtu.be/HLUv8DHt_R4)</mark> Is of Stupid (youtu.be/T6ulH2bWCnY)	
		Video Name	Date Watched
	Friend or Fake?		
<u> </u>	your troop or another pa		teach internet safety rules, behavior, and "netiquette" to additional material and information you have researched. of the lesson.
_			
<u> </u>		eader the acceptable standards and proposer your meetings and other Scouting ever	actices for using allowed electronic devices, such as nts.

Scouts BSA Cyber Chip

Scout's Name: \_\_\_\_\_

#### **B. Cyber Chip Requirements for Grades 9-12**

1. Read and sign the Level II Internet Safety Pledge on the BSA Cyber Chip card. (BSA Cyber Chip green card; can be ordered at <a href="www.scoutshop.org">www.scoutshop.org</a>.)

#### **Internet Safety Pledge**

- 1. I will think before I post
- 2. I will respect other people online
- 3. I will respect digital media ownership
- 4. I won't meet face-to-face with anyone I meet in the digital world unless I have my parent's permission
- 5. I will protect myself online.
- 2. Write and sign a personalized contract with your parent or guardian that outlines rules for using the computer and mobile devices, including what you can download, what you can post, and consequences for inappropriate use.

, 3	<del>,</del>	, ,	1 /		
General comments					
What I can download					
What I dan download					
What I can post					
Consequences for inappropriate use					
inappropriate use					

Scouts	BSA Cyber Chip	Scout's Name:			
☐ 3.	Discuss with your parents the benefits and potential dang	gers teenagers might experience when using social media.			
		<u> </u>			
	Give examples of each.				
<u> </u>	Watch three <b>{of the following}</b> "Real-Life Story" videos (learn the impact on teens.	(www.nsteens.org/videos.aspx?Brand=Real-Life-Stories) to			
	• Friend or Fake? (youtu.be/Nb1zAY_cc8o)				
	<ul> <li>Post to be Private (youtu.be/mBsoODqfQc</li> <li>Split Decisions (youtu.be/HLUv8DHt_R4)</li> <li>Two Kinds of Stupid (youtu.be/T6ulH2bW</li> </ul>				
	Video Name	Date Watched			
<u> </u>	As an individual or patrol, use the EDGE method and the <a href="https://www.missingkids.org/content/dam/netsmartz/downloadal.">www.missingkids.org/content/dam/netsmartz/downloadal.</a>	able/studentprojectkit/Student_Project_Kit_V1.5.pdf) to teach			
	internet safety rules, behavior, and "netiquette" to your tromaterial and information you have researched. Each mer lesson.	roop or another patrol. You are encouraged to use any additional ember of the patrol must have a role and present part of the			
	lesson.				

Scouts	BSA Cyber	Chip		Scout's Name:		
☐ 6.			er the acceptable star meetings and other S		using allowed electronic device:	s such as
	Note:	(www.netsma	rtz.org) and com	plete two new resou	out will need to go to	safety and

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Editor's Note: The text in this form is additional material which is found on the scouting.org website, that does not appear in the 2020 Scouts BSA Requirements booklet (33216 - SKU 653801).

or certificate.