

## DIGITAL TECHNOLOGY GRAND TETON COUNCIL Merit Badge PowWow Worksheet

Scout's Name	•	Instructor's Na	me	
Scout's Addr	ess	City	State	ZIP
2) H	The Scout is to review the merit Bring this worksheet, paper, and Bring a Merit Badge blue card		of the PowWow.	
*Requiremen	t Instructions			
2) R 3) R * Due to pos	sequirements 6 should be completed acquirements 4, 5, 7, 8, and 9 should be completed at the Poissible time constraints at the Poissible time	be completed during the first sess eted as homework between the two ould be completed during the second owWow, certain requirements the ed as homework. Please LISTE	vo sessions of PowWow and session of PowWow that were originally plant	
	ware of any changes.		<b>.</b>	
Requirement	1		Initial	
Show your cou	unselor your current, up-to-date	Cyber Chip.		
Requirement	2		Initial	
Do the followi	ing:			
a	· · · · · · · · · · · · · · · · · · ·	nanges in digital technology over our lifetime compares with that of	-	
t	<ul> <li>Describe the kinds of compa</li> </ul>	iters or devices you imagine migh	nt be available when you a	re an adul

a. b.	_	n to your counselor how text, sound, pictures, and videos are digitized for storage. be the difference between lossy and lossless data compression, and give an example where each be used.			
		Lossy:			
		Example:			
		Lossless:			
		Example:			
c.	Describ	e two digital devices and how they are made more useful by their programming.  1.			
		2.			
d.	Discuss	the similarities and differences between each of the following.  Computers:			
		Mobile Devices:			
		Gaming Consoles:			
e.	Explain	what a computer network is and describe the network's purpose.			
Requir	ement 4	Initial			
Do the	following				
	a.	Explain what a program or software application or "app" is and how it is created.			
	b.	Name four software programs or mobile apps you or your family use, and explain how each one helps you.			

Initial

**Requirement 3** 

Do the following:

How does it help you?

## c. What is malware?

How can you protect your digital devices and the information stored on them?

Requirement 5 Initial

Do the following:

- a. Describe how digital devices are connected to the Internet.
- Using an Internet search engine (with your parent's permission), find ideas about how to conduct a troop court of honor or campfire program. Print out a copy of the ideas from at least three different websites.
   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.

Requirement 6 Initial

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.

- 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 the picture 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.

Requirement 7 Initial

Do the following:

- a. Explain to your counselor each of these protections and why they exist:
  - 1. Copyright
  - 2. Patents
  - 3. Trademarks
  - 4. Trade secrets
- b. When is it permissible to accept a free copy of a program from a friend?
- c. Discuss with your counselor an article or a news report about a recent legal case involving an intellectual property dispute.

Requirement 8 Initial

Do TWO of the following:

a. Why is it 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.

- 1.
- 2.
- 3.

- b. Explain to your counselor what is required to become a certified recycler of digital technology hardware or devices.
- c. 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.
- d. Visit a recycling center that disposes of digital technology hardware or devices. Find out what happens to that waste. Share what you learned with your counselor.
- e. Find a battery recycling center near you and find out what it does to recycle batteries. Share what you have learned with your counselor about the proper methods for recycling batteries.

Requi	rement 9	Initial
Do ON	E of the following:	
a.	Investigate three career opportunities that involve digital technology.	
	1.	
	2.	
	3.	
	Pick one and find out the requirements for this profession.	
	Education:	
	Training:	
	Experience:	
	Discuss this with your counselor, and explain why this profession might interest y	ou.
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.	
	Share what you learned with your counselor.	

Merit badge worksheets will not be accepted at the Council Office in place of the official Merit Badge Application Card. Those who do not complete all the requirements should take their partially completed merit badge worksheet and their official application card to their local merit badge counselors for completion.