



# SCOUTMASTER BUCKY

## Digital Technology Merit Badge

SCOUTS PARTICIPATING IN A SCOUTMASTER BUCKY MERIT BADGE OPPORTUNITY (ONLINE OR IN PERSON), PLEASE CONSIDER ALSO USING THE DIGITAL TECHNOLOGY MERIT BADGE CLASS PREPARATION PAGE FOR CLARIFICATIONS, INSIGHTS, AND EXPECTATIONS.

<https://scoutmasterbucky.com/merit-badges/digital-technology/class-prep/>

### DIGITAL TECHNOLOGY MERIT BADGE WORKBOOK

**REQUIREMENT 1:** View the Personal Safety Awareness “Digital Safety” video (with your parent or guardian’s permission).

<https://www.scouting.org/training/youth/scouts-bsa/>

choose the Digital Safety option

\_\_\_\_\_  
Parent’s / Guardian’s Name

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Parent’s / Guardian’s Signature

\_\_\_\_\_  
Date

permission

**Notes:**



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**REQUIREMENT 2a:** Give a brief history of the changes in digital technology over time.

Notes:

**REQUIREMENT 2a:** Discuss with your counselor how digital technology in your lifetime compares with that of your parent's, grandparent's, or other adult's lifetime.

Notes:



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**REQUIREMENT 2b:** Describe what kinds of computers or devices you imagine might be available when you are an adult.

Notes:

**REQUIREMENT 3a:** Explain to your counselor how text, sound, and pictures are digitized for storage.

Text:

Sound:

Pictures:



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**REQUIREMENT 3b:** Describe the difference between lossy and lossless data compression, and give an example where each might be used.

**LOSSY**

**LOSSLESS**

Differences:

Differences:

Example where used:

Example where used:

**REQUIREMENT 3c:** Describe two digital devices and how they are made more useful by their programming.

Device #1:

Device #2:



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**REQUIREMENT 3d:** Discuss the similarities and differences between computers, mobile devices, and gaming consoles.

Notes:



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**REQUIREMENT 3e:** Explain what a computer network is.

Notes:

**REQUIREMENT 3e:** Explain the difference between a local area network (LAN) versus a wide area network (WAN).

Notes:



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**REQUIREMENT 4a:** Explain what a program or software application or “app” is.

Notes:

**REQUIREMENT 4a:** Explain how a computer uses a CPU and memory to execute an app.

Notes:

**REQUIREMENT 4b:** Name four software programs or mobile apps you or your family use, and explain how each one helps you.

SOFTWARE PROGRAM / MOBILE APP #1

Name:

How this program / mobile app helps:



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### SOFTWARE PROGRAM / MOBILE APP #2

Name:

How this program / mobile app helps:

### SOFTWARE PROGRAM / MOBILE APP #3

Name:

How this program / mobile app helps:

### SOFTWARE PROGRAM / MOBILE APP #4

Name:

How this program / mobile app helps:





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**REQUIREMENT 4c:** Describe what malware is.

Notes:

**REQUIREMENT 4c:** Explain how to protect your digital devices and the information stored on them.

Notes:

**REQUIREMENT 5a:** Describe at least two different ways data can be transferred through the internet.

Way #1:

Way #2:



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**REQUIREMENT 5b:** Using an internet search engine (with your parent or guardian'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.

Parent's / Guardian's Name

Phone

Parent's / Guardian's Signature

Date

permission

Don't forget to bring your print outs with you to share with the merit badge counselor.

**This requirement must be reviewed with your merit badge counselor.**

**BE PREPARED!**

**Website 1:**

**Website 2:**

**Website 3:**

**REQUIREMENT 5b:** Explain how you used the search engine to find this information.

**Notes:**



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**REQUIREMENT 5c:** Use a web browser to connect to an HTTPS (secure) website (with your parent or guardian'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.

Parent's / Guardian's Name

Phone

Parent's / Guardian's Signature

Date

permission

**Website:**

**Notes:**



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**DO THREE OF THE FOLLOWING (6A, 6B, 6C, 6D, 6E, 6F, 6G, or 6H) FOR REQUIREMENT 6**

**REQUIREMENT 6:** For each selected requirement component, or project you complete, copy the files to a backup device and share the finished projects with your counselor.

**REQUIREMENT 6a:** 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.

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

This requirement component (when completed) must be reviewed with your merit badge counselor.

**BE PREPARED!**

**REQUIREMENT 6b:** Using a word processor, write a draft letter to the parents of your troop's Scouts, inviting them to a troop event.

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

This requirement component (when completed) must be reviewed with your merit badge counselor.

**BE PREPARED!**

**REQUIREMENT 6c:** 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.

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

This requirement component (when completed) must be reviewed with your merit badge counselor.

**BE PREPARED!**





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**REQUIREMENT 6d:** 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.

Topic: \_\_\_\_\_

**COUNSELOR PERMISSION:** PERHAPS IMPLIED, THIS REQUIREMENT DOES NOT STATE THAT YOU NEED THE COUNSELOR'S PERMISSION AHEAD OF TIME TO PREPARE. PLEASE NOTE, AS WITH ANY REQUIREMENT, ACCEPTANCE IS AT THE DISCRETION AND SATISFACTION OF THE MERIT BADGE COUNSELOR.

\_\_\_\_\_  
Counselor's Name

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Counselor's Signature

\_\_\_\_\_  
Date

permission

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

**This requirement component (when completed) must be reviewed with your merit badge counselor.**

**BE PREPARED!**

**REQUIREMENT 6e:** 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.

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

**This requirement component (when completed) must be reviewed with your merit badge counselor.**

**BE PREPARED!**

**REQUIREMENT 6f:** Make a digital recording of your voice, transfer the file to a different device, and have your counselor play back the recording.

Be sure to bring any completed work on a thumb drive to share with your merit badge counselor.

**This requirement component (when completed) must be reviewed with your merit badge counselor.**

**BE PREPARED!**







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**REQUIREMENT 7a:** Explain to your counselor each of these protections and why they exist: copyright, patents, trademarks, trade secrets.

**Copyright:**

**Patents:**

**Trademarks:**

**Trade Secrets:**



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**REQUIREMENT 7b:** Explain when it is permissible to accept a free copy of a program from a friend.

Notes:

**REQUIREMENT 7c:** 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.

Notes:





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**DO TWO OF THE FOLLOWING (8A, 8B, 8C, 8D, or 8E) FOR REQUIREMENT 8**

**REQUIREMENT 8a:** Describe why it is important to properly dispose of digital technology.

Notes:

**REQUIREMENT 8a:** List at least three dangerous chemicals that could be used to create digital devices or used inside a digital device.

Dangerous Chemical #1:

Dangerous Chemical #2:

Dangerous Chemical #3:

Notes:



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**REQUIREMENT 8b:** Explain to your counselor what is required to become a certified recycler of digital technology hardware or devices.

Notes:

**REQUIREMENT 8c:** 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.

Organization and website:

Notes:



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**REQUIREMENT 8d:** Visit a recycling center that disposes of digital technology hardware or devices.

Recycling Center and Location:

Person's Name and Position that you spoke with:

**REQUIREMENT 8d:** Find out what happens to that waste. Share what you learned with your counselor.

Notes:



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**REQUIREMENT 8e:** 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.

**Battery Recycling Center and Location:**

**Person's Name and Position that you spoke with:**

**Notes:**



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**DO ONE OF THE FOLLOWING (9A or 9B) FOR REQUIREMENT 9**

**REQUIREMENT 9a:** Investigate three career opportunities that involve digital technology.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

**REQUIREMENT 9a:** Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.

Selected Career Opportunity:

Educational Requirements:

Training Requirements:

Experience Requirements:

**REQUIREMENT 9a:** Explain why this profession might interest you.

Notes:



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**REQUIREMENT 9b:** Visit a business or an industrial facility that uses digital technology. Describe four ways digital technology is being used there. Share what you learned with your counselor.

**Business or Industrial Facility and Location:**

**Person's Name and Position that you spoke with:**

**Notes:**