



# Scoutmaster Bucky

## DIGITAL TECHNOLOGY

### Merit Badge Workbook

[www.ScoutmasterBucky.com](http://www.ScoutmasterBucky.com)

SCOUT'S INFORMATION	MERIT BADGE COUNSELOR INFORMATION
Name _____ Phone _____ Organization _____	Name _____ Address _____ City State Zip _____ Phone _____ Mobile _____ Email _____
<b>WORKBOOK INFORMATION</b>	
Scoutmaster Bucky Workbook based off of <i>Boy Scout Requirements – 2018 Edition</i> Visit <a href="http://www.ScoutmasterBucky.com">www.ScoutmasterBucky.com</a> for more information.	

**REQUIREMENT 1:**      SHOW YOUR COUNSELOR YOUR CURRENT, UP-TO-DATE CYBER CHIP.

**BRING YOUR CARD TO CLASS WITH YOU!**

Date earned/recharged: \_\_\_\_\_

\_\_\_\_\_  
Scoutmaster's / Advancement Chair's Name

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Scoutmaster's / Advancement Chair's Signature

\_\_\_\_\_  
Date  approved

Earning the Cyber Chip will help you learn how to stay safe while you are online and using social networks or the latest electronic gadgets. Topics include cell phone use, texting, blogging, gaming, cyberbullying, and identity theft. Find out more about the Cyber Chip at <http://www.scouting.org/cyberchip>.



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**REQUIREMENT 2A:**

GIVE A BRIEF HISTORY OF THE CHANGES IN DIGITAL TECHNOLOGY OVER TIME.

**REQUIREMENT 2A:**

DISCUSS WITH YOUR COUNSELOR HOW DIGITAL TECHNOLOGY IN YOUR LIFETIME COMPARES WITH THAT OF YOUR PARENTS, GRANDPARENTS, OR OTHER ADULT'S LIFETIME.



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**REQUIREMENT 2B:**

DESCRIBE WHAT KINDS OF COMPUTERS OR DEVICES YOU IMAGINE MIGHT BE AVAILABLE WHEN YOU ARE AN ADULT.

**REQUIREMENT 3A:**

EXPLAIN TO YOUR COUNSELOR HOW TEXT, SOUND, PICTURES, AND VIDEOS ARE DIGITIZED FOR STORAGE.

Text:

Sound:



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Pictures:

Videos:

**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:



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**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.

**REQUIREMENT 3E:**

EXPLAIN WHAT A COMPUTER NETWORK IS AND DESCRIBE THE NETWORKS PURPOSE.



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**REQUIREMENT 4A:** EXPLAIN WHAT A PROGRAM OR SOFTWARE APPLICATION OR "APP" IS AND HOW IT IS CREATED.

**REQUIREMENT 4B:** NAME FOUR SOFTWARE PROGRAMS OR MOBILE APPS YOU OR YOUR FAMILY USE, AND EXPLAIN HOW EACH ONE HELPS YOU.

Software / App #1:

Software / App #2:



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Software / App #3:

Software / App #4:

**REQUIREMENT 4C:** DESCRIBE WHAT MALWARE IS, AND EXPLAIN HOW TO PROTECT YOUR DIGITAL DEVICES AND THE INFORMATION STORED ON THEM.





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**REQUIREMENT 5A:** DESCRIBE HOW DIGITAL DEVICES ARE CONNECTED TO THE INTERNET.

**REQUIREMENT 5B:** 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 WEB SITES. SHARE WHAT YOU FOUND WITH YOUR COUNSELOR, AND EXPLAIN HOW YOU USED THE SEARCH ENGINE TO FIND THIS INFORMATION.

_____	_____
Parent's Name	Phone
_____	_____
Parent's Signature	Date
	<input type="checkbox"/> Approved to use the Internet

Website 1:

Website 2:

Website 3:



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#### REQUIREMENT 5C:

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.

Parent's Name \_\_\_\_\_

Phone \_\_\_\_\_

Parent's Signature \_\_\_\_\_

Date \_\_\_\_\_

Approved  
to use the  
Internet

Website:

Notes:



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

**REQUIREMENT 6:** FOR EACH 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.

This requirement component does not require any workbook entry.

**REQUIREMENT 6B:** USING A WORD PROCESSOR, WRITE A DRAFT LETTER TO THE PARENTS OF YOUR TROOPS SCOUTS, INVITING THEM TO A TROOP EVENT.

This requirement component does not require any workbook entry.

**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.

This requirement component does not require any workbook entry.

**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:

\_\_\_\_\_

Counselors Name

\_\_\_\_\_

Phone

\_\_\_\_\_

Counselor's Signature

\_\_\_\_\_

Date

Approved

This requirement does not require any workbook entry; however, it DOES REQUIRE PRIOR COUNSELOR APPROVAL. Attach a printout of your slides once you have counselor approval and complete your presentation for your counselor to review. You may also want to have your slides in electronic format along with you when you meet with the counselor.



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**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.

This requirement component does not require any workbook entry.

**REQUIREMENT 6F:** MAKE A DIGITAL RECORDING OF YOUR VOICE, TRANSFER THE FILE TO A DIFFERENT DEVICE, AND HAVE YOUR COUNSELOR PLAY BACK THE RECORDING.

This requirement component does not require any workbook entry.

**REQUIREMENT 6G:** 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.

**REQUIREMENT 6H:** 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.

**DO NOT POST YOUR BLOG or WEB PAGE WITHOUT PARENT AND COUNSELOR APPROVAL**

\_\_\_\_\_  
Parent's Name

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Parent's Signature

\_\_\_\_\_  
Date

Approved to post blog

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

\_\_\_\_\_  
Phone

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

\_\_\_\_\_  
Date

Approved to post blog



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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.

**REQUIREMENT 7C:**

DISCUSS WITH YOUR COUNSELOR AN ARTICLE OR A NEWS REPORT ABOUT A RECENT LEGAL CASE INVOLVING AN INTELLECTUAL PROPERTY DISPUTE.



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**DO TWO OF THE FOLLOWING (8A, 8B, 8C, 8D, AND/OR 8E) IN REQUIREMENT 8**

**REQUIREMENT 8A:** DESCRIBE WHY IT IS IMPORTANT TO PROPERLY DISPOSE OF DIGITAL TECHNOLOGY.

Blank area for describing why it is important to properly dispose of digital technology.

**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.





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**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. FIND OUT WHAT HAPPENS TO THAT WASTE. SHARE WHAT YOU LEARNED WITH YOUR COUNSELOR.

Recycling Center and Location:

Person's Name and Position that you spoke with:



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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:



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**DO ONE OF THE FOLLOWING (9A OR 9B) IN REQUIREMENT 9**

**REQUIREMENT 9A:** INVESTIGATE THREE CAREER OPPORTUNITIES THAT INVOLVE DIGITAL TECHNOLOGY. PICK ONE AND FIND OUT THE EDUCATION, TRAINING, AND EXPERIENCE REQUIRED FOR THIS PROFESSION. DISCUSS THIS WITH YOUR COUNSELOR, AND EXPLAIN WHY THIS PROFESSION MIGHT INTEREST YOU.

Career Opportunity #1: \_\_\_\_\_

Career Opportunity #2: \_\_\_\_\_

Career Opportunity #3: \_\_\_\_\_

Selected Career Opportunity: \_\_\_\_\_

Education:

Training:

Experience:

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: