



Scoutmaster Bucky

COMPUTERS

Merit Badge Workbook

This Workbook has been developed to help aid in organizing notes and references while working on the Computers Merit Badge Requirements.

Visit www.ScoutmasterBucky.com for more information

SCOUT'S INFORMATION	MERIT BADGE COUNSELOR INFORMATION
Name _____	Name _____
Phone _____	Address _____
Organization _____	City State Zip _____
WORKBOOK INFORMATION	
Scoutmaster Bucky Workbook based off of <i>Boy Scout Requirements – 2011 Edition</i>	
Visit www.ScoutmasterBucky.com for more information.	
	Phone _____
	Mobile _____
	Email _____

REQUIREMENT 1: DISCUSS WITH YOUR COUNSELOR THE TIPS FOR ONLINE SAFETY.

Notes:



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REQUIREMENT 2: GIVE A SHORT HISTORY OF THE COMPUTER.

Notes:



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REQUIREMENT 2:

EXPLAIN HOW THE INVENTION OF THE COMPUTER HAS AFFECTED SOCIETY AND SCIENCE AND TECHNOLOGY.

affect on Society:

affect on Science and Technology:



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REQUIREMENT 3A:

DESCRIBE FOUR USES OF COMPUTERS OUTSIDE YOUR HOME.

Use #1:

Use #2:

Use #3:

Use #4:



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REQUIREMENT 3B: DESCRIBE THREE WAYS YOU AND YOUR FAMILY COULD USE A PERSONAL COMPUTER OTHER THAN FOR GAMES AND ENTERTAINMENT.

Use #1:

Use #2:

Use #3:



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REQUIREMENT 4A: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: THE FIVE MAJOR PARTS OF A COMPUTER.

Part #1:

Part #2:

Part #3:

Part #4:

Part #5:



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REQUIREMENT 4B: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: HOW TEXT, SOUND, PICTURES, AND VIDEO FILES ARE STORED IN A COMPUTER'S MEMORY.

Notes:

REQUIREMENT 4C: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: HOW FILE COMPRESSION WORKS AND HOW COMPRESSION AFFECTS THE QUALITY OF THE FILE.

Notes:



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REQUIREMENT 4D: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: DESCRIBE TWO COMPUTER CHIP-BASED DEVICES, AND DESCRIBE HOW THEY ARE "SMARTER" BECAUSE OF THE CHIP AND ITS PROGRAM.

Item #1:

Item #2:



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REQUIREMENT 5A: EXPLAIN WHAT A PROGRAM OR SOFTWARE APPLICATION IS AND HOW IT IS DEVELOPED.

Notes:

REQUIREMENT 5B: NAME THREE PROGRAMMING LANGUAGES AND DESCRIBE THEIR USES.

Language #1:

Language #2:

Language #3:



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REQUIREMENT 5C: NAME FOUR SOFTWARE PACKAGES YOU OR YOUR FAMILY COULD USE, AND EXPLAIN HOW YOU WOULD USE THEM.

Software #1:

Software #2:

Software #3:

Software #4:



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REQUIREMENT 5D:

DISCUSS WAYS YOU CAN HELP PROTECT A COMPUTER FROM VIRUSES AND HOW TO PROTECT THE INFORMATION STORED ON A COMPUTER.

Notes:

REQUIREMENT 5E:

DESCRIBE HOW COMPUTERS ARE LINKED TO GENERATE AND ACCESS THE INTERNET AND THE WORLD WIDE WEB.

Notes:



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

REQUIREMENT 6A: USING A SPREADSHEET PROGRAM, DEVELOP A FOOD BUDGET FOR A PATROL WEEKEND CAMPOUT.

This requirement does not require any workbook entry. Attach a printout of your spreadsheet to this workbook for your counselor to review. You may also want to have your spreadsheet in electronic format along with you when you meet with the counselor.

REQUIREMENT 6B: USING A WORD PROCESSOR, WRITE A LETTER TO THE PARENTS OF YOUR TROOP'S SCOUTS INVITING THEM TO A COURT OF HONOR.

This requirement does not require any workbook entry. Attach a printout of your letter to this workbook for your counselor to review. You may also want to have your letter in electronic format along with you when you meet with the counselor.

REQUIREMENT 6C: USING A COMPUTER GRAPHICS PROGRAM, DESIGN AND DRAW A CAMPSITE PLAN FOR YOUR TROOP.

This requirement does not require any workbook entry. Attach a printout of your campsite plan to this workbook for your counselor to review. You may also want to have your campsite plan in electronic format along with you when you meet with the counselor.

REQUIREMENT 6D: USING A COMPUTER GRAPHICS PROGRAM, CREATE A FLIER FOR AN UPCOMING TROOP EVENT, INCORPORATING BOTH TEXT AND SOME TYPE OF VISUAL SUCH AS A PHOTOGRAPH OR ILLUSTRATION..

This requirement does not require any workbook entry. Attach a printout of your flier to this workbook for your counselor to review. You may also want to have your flier in electronic format along with you when you meet with the counselor.



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REQUIREMENT 6E:

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

Approved
to use the
Internet

Notes:

Be sure to attach your three printouts to this workbook to share with your counselor.



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REQUIREMENT 6F: USING A PRESENTATION SOFTWARE PROGRAM OF YOUR CHOICE, DEVELOP A REPORT ABOUT A TOPIC THAT HAS BEEN APPROVED BY YOUR COUNSELOR. FOR YOUR PRESENTATION, CREATE AT LEAST 10 SLIDES.

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.

REQUIREMENT 6G: USING A DIGITAL CAMERA, TAKE A PICTURE OF A TROOP ACTIVITY. TRANSFER THE PICTURE FILE TO A COMPUTER AND USE PHOTOGRAPHIC SOFTWARE TO MAKE IT SMALL ENOUGH TO SEND EASILY AS AN E-MAIL ATTACHMENT. THEN, USING A COMPUTER CONNECTED TO THE INTERNET (WITH YOUR PARENT'S PERMISSION), SEND AN E-MAIL TO SOMEONE YOU KNOW. IN YOUR MESSAGE, INCLUDE THE PHOTOGRAPH AS AN ATTACHMENT. VERIFY THAT THE PERSON RECEIVED YOUR E-MAIL AND WAS ABLE TO VIEW THE ATTACHMENT.

Parent's Name

Phone

Parent's Signature

Date

Approved
to use the
Internet

Notes:

Attach a printout of your original email, your photo, and your respondents email to this workbook for your counselor to review. You may also want to have copies of these items in electronic format along with you when you meet with the counselor.



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REQUIREMENT 6H: USING A DATABASE MANAGER, CREATE A TROOP ROSTER THAT INCLUDES THE NAME, RANK, PATROL, AND TELEPHONE NUMBER OF EACH SCOUT. SHOW YOUR COUNSELOR THAT YOU CAN SORT THE REGISTER BY EACH OF THE FOLLOWING CATEGORIES: RANK, PATROL, AND ALPHABETICALLY BY NAME.

If choosing this requirement option, once you have created your troop roster in the database manager, you will want to have access to a computer / laptop with that application on it to share with your counselor.

DO ONE OF THE FOLLOWING (7A, 7B, 7C, 7D, OR 7E) IN REQUIREMENT 7

REQUIREMENT 7A: USING A DATABASE PROGRAM OF YOUR CHOICE, CREATE A TROOP ROSTER THAT CAN BE SORTED BY THE NAME, RANK, PATROL, AND TELEPHONE NUMBER OF EACH SCOUT. CREATE A FORM WITHIN THE DATABASE MANAGER TO ACCESS EACH SCOUT'S INFORMATION INDIVIDUALLY. SHOW YOUR COUNSELOR HOW THE FORM WORKS.

While very similar to requirement 6H above, there are some more detailed components to this requirement option. If choosing this requirement option, once you have created your troop roster database and form, you will want to have access to a computer / laptop with that application on it to share with your counselor.

REQUIREMENT 7B: USING A SOFTWARE PACKAGE OF YOUR CHOICE FOR COMPUTER AIDED DESIGN (CAD), CREATE AN ENGINEERING-STYLE DRAWING OF A SIMPLE OBJECT. INCLUDE THE TOP, BOTTOM, AND AT LEAST ONE SIDE VIEW AND THE DIMENSIONS.

This requirement does not require any workbook entry. Attach a printout of your CAD drawing to this workbook for your counselor to review. You may also want to have your CAD Drawing in an electronic format along with you when you meet with the counselor. Note standard CAD files are not easily managed or viewed on computers that do not have CAD installed on it. Make sure your electronic file is in a format that is compatible with the applications on computer / laptop that you will be using with your counselor.



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REQUIREMENT 7C:

CREATE A BLOG AND USE IT AS AN ONLINE JOURNAL OF YOUR SCOUTING ACTIVITIES, INCLUDING GROUP DISCUSSIONS AND MEETINGS, CAMPOUTS, AND OTHER EVENTS. YOUR BLOG SHOULD HAVE AT LEAST FIVE ENTRIES AND TWO PHOTOGRAPHS OR ILLUSTRATIONS. YOU NEED NOT POST THE BLOG TO THE INTERNET, BUT YOU WILL NEED TO SHARE IT WITH YOUR COUNSELOR. IF YOU DECIDE TO GO LIVE WITH YOUR BLOG, YOU MUST FIRST SHARE IT WITH YOUR PARENTS AND COUNSELOR AND GET THEIR APPROVAL.

Notes:

It is recommended that you attach a printout of your blog to this workbook for your counselor to review. You may also want to have your blog in electronic format along with you when you meet with the counselor.

DO NOT POST YOUR BLOG 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 7D:

CREATE A WEB PAGE FOR YOUR TROOP, PATROL, SCHOOL, OR PLACE OF WORSHIP. INCLUDE AT LEAST THREE ARTICLES AND TWO PHOTOGRAPHS OR ILLUSTRATIONS. YOUR WEB PAGE SHOULD HAVE AT LEAST ONE LINK TO A WEB SITE THAT WOULD BE 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 IT WITH YOUR PARENTS AND COUNSELOR AND GET THEIR APPROVAL.

Notes:

It is recommended that you attach a printout of your web page to this workbook for your counselor to review. You may also want to have your web page in electronic format along with you when you meet with the counselor.

DO NOT POST YOUR WEB PAGE WITHOUT PARENT AND COUNSELOR APPROVAL

Parent's Name

Phone

Parent's Signature

Date

Approved
to post web
page

Counselor's Name

Phone

Counselor's Signature

Date

Approved
to post web
page



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REQUIREMENT 7E: VISIT A BUSINESS OR AN INDUSTRIAL PLANT THAT USES COMPUTERS. OBSERVE WHAT TASKS THE COMPUTERS ACCOMPLISH, AND BE PREPARED TO DISCUSS WHAT YOU HAVE LEARNED.

Organization's Name: _____

Meeting Date: _____

Notes:



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REQUIREMENT 8A:

EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: WHY COPYRIGHT LAWS EXIST

Notes:

REQUIREMENT 8B:

EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: WHY IT IS NOT PERMISSIBLE TO ACCEPT A FREE COPY OF A PAID, COPYRIGHTED COMPUTER GAME OR PROGRAM FROM A FRIEND UNLESS THE GAME OR PROGRAM IS CONSIDERED FREWARE OR SHAREWARE.

Notes:



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REQUIREMENT 8B: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: EXPLAIN THE CONCEPTS OF FREEWARE AND SHAREWARE

Freeware:

Shareware:

REQUIREMENT 8C: EXPLAIN THE FOLLOWING TO YOUR COUNSELOR: THE RESTRICTIONS AND LIMITATIONS OF DOWNLOADING MUSIC FROM THE INTERNET

Notes:



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REQUIREMENT 9:

FIND OUT ABOUT THREE CAREER OPPORTUNITIES IN THE COMPUTER INDUSTRY. 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. REPORT WHAT YOU LEARN TO YOUR COUNSELOR.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

Selected Career Opportunity:

Education:

Training:

Experience:

Notes: