

4. Explain to your counselor the following:

Computers

Merit Badge Workbook

This workbook can help you organize your notes but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Workbooks for all merit badges are at: http://usscouts.org/mb/wkbks/list.asp. Send comments to: craig@craiglincoln.com. Requirements revised: 2006, Workbook updated: January 2008.

Sc	out's Name:	Unit:	
	unselor's Name:		
1.	Discuss with your counselor the tips for online safety		
2.	Explain how the invention of the computer has affected soc	eiety, science, and technology.	
	In your explanation, give a short history of the computer.		
3.	Do the following:		
	Explain four different uses of computers.		
	1		
	2		
	3		
	4		
b.	Describe three ways you and your family could use a perso	onal computer other than for games and recreation.	
	1		
	2		
	3		

	omputers p. 2	mouter evetem	Merit Badge Workbook	Scout's Name:	
d.	The major parts of a con				
	Part	Explanation			
					_
					_
					_
					_
					_
b.	How the types of files us	sed to store text, _			_
					_
	sound,				_
					_
					_
	pictures,				_
					_
	and video are stored in	a computer's memo	nrv		_
	and video are stored in	a compater 3 meme	ory		_
					-
_					-
	Do the following:				
a.	Explain what a program	ı is			_
					_
					_
	and how it is developed	l			_
b.	Give three examples of	programming langu	uages, and describe their uses.		_
	Language	Uses			
	1				_
	2				_
					_
C.	Name four software page	ckages you or your	family could use, and explain how	you would use them.	
	Packages	Uses	, , ,	•	
	_				
					-
	2				_

Co	omputers p. 3 4	Merit Badge Workbook	Scout's Name:
d.			
	and how to keep secure informa	ation that has been saved on a computer	
e.	Describe how computers are lin	iked to form the Internet and the World Wid	le Web
	•	•	rank, patrol, and telephone number of each Scout. g categories: rank, patrol, and alphabetically by
b.		develop a food budget for a patrol weekend	d campout.
C.		a letter to the parents of your troop's Scouts o make a personalized copy of the letter for	s inviting them to a court of honor. Use the each family.
d.		am to design and draw a campsite plan for	your troop, OR design a flyer for an upcoming troop
e.		our choice, develop a short presentation about create at least 10 slides.	out a topic that has been approved by your
f.	of the ideas from at least three		court of honor or campfire program. Print out a copy with your counselor, and explain how you used the

	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.			
h.	Describe two computer chip-based devices, and explain how they are "smarter" because of the chip and its program			
	Do ONE of the following:			
a.	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.			
b.	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.			
C.	Use a general purpose programming language to write a simple program application of your choice, subject to approval by your counselor.			
d.	Design a Web page for your troop, patrol, school, or place of worship. You need not post the page to a Web site. However, if you decide to do so, you will first need to get your parent's permission and your counselor's approval, as well as permission from the host site.			
8.	For each of the following categories, discuss several related terms: input and output devices,			
	storage media,			
	memory,			
	processors and coprocessors,			
	modems or network cards,			
	networks,			
	World Wide Web and Internet,			

Computers p. 5 electronic mail,	Merit Badge Workbook	Scout's Name:			
Wi-Fi.					
9. Explain the following to your co	ounselor:				
a. Why it is not permissible to accept a free copy of a copyrighted computer game or program from a friend					
The restrictions and limitations	of downloading music from the Internet				
. Why copyright laws exist					
	ck two career opportunities in the computer field that interest you. Find out what education, training, and experience those ositions require. Report what you learn to your counselor.				
Opportunity					
Education, training, and experi	ence				
Opportunity					