

Textile

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: Online Resources.

Workbook developer: craig@craiglincoln.com. Requirements revised: 2003, Workbook updated: April 2008.

Scout's Name:		Unit:		
Counselor's Name:		Counselor's Ph #:		
1. Discuss with your merit badge co	ounselor the importance of textiles.	In your discussion, define the terms		
fiber,				
fabric,				
and textile.				
Give examples of textiles you use e	every day			
2. Do the following:				
(a) Get swatches of two natural-	-fiber fabrics (100 percent cotton, lir	nen, wool, or silk; no blends).		
Get swatches of two synthetic-fi	iber fabrics (nylon, polyester, acrylic	c, olefin, or spandex).		
Get a sample of one cellulosic fa	abric (rayon, acetate, or lyocell).			
(b) Give the origin, major character	ristics, and general content of each	type of fiber obtained for 2(a).		
Swatch type:	Origin:	· · · · · · · · · · · · · · · · · · ·		
Major characteristics:				
Major characteristics:				
Major characteristics:				
Major characteristics:				
General content:				
Major characteristics:				

Textile p. 2	Merit Badge Workbook	Scout's Name:
and a synthetic manufactured fiber		
(c) Describe the main steps in making ra	w fiber into varn, and varn into fabric	
(d) Assume you will soon buy a new gar item to be, and give reasons for your cho		unselor what fiber or blend of fibers you want the
3. Do TWO of the following:		
(a) Visit a textile plant, textile products	manufacturer, or textile school or colle	ge. Report on what you saw and learned.
(b) Weave a belt, headband, place ma	at, or wall hanging. Use a simple loom	that you have made yourself.
(c) With a magnifying glass, examine how the three constructions are di		a knitted fabric. Sketch what you see. Explain
(d) Make a piece of felt.		
$\hfill \square$ (e) Make two natural dyes and use the	em to dye a garment or a piece of fabrio	C.
(f) Waterproof a fabric.		
(g) Demonstrate how to identify fibers	, using microscope identification or the	breaking test.
4. Explain the meaning of 10 of the follow	ring terms:	
warp,		
harness,		
haddla		
heddle,		
shed,		
Silou,		
aramid,		
spandex,		
sliver,		
yarn,		

Textile p. 3	Merit Badge Wo	rkbook S	Scout's Name:
spindle,			
distaff,			
loom			
100m,			
cellulose,			
sericulture,			
spinneret,			
staple,			
worsted,			
nonwoven,			
greige goods			
5.	List the advantages and	disadva	antages of
natural plant fibers,			
natural animal fibers,			
cellulosic manufactured			
fibers,			
and synthetic manufactured			
fibers.			
Identify and discuss at least	four ecological concerns regarding the	production and ca	re of textiles.
1			
2			

Textile p. 4	Merit Badge W		Scout's Name:	
3				
4			ve career possibilities in the	e textile industry
	•	•	•	•
1				
2				
3				
4				
5				
Tell about two positions that interest you				
Position:				
Education:				
Cost of Training:				
Specific Duties:				
Position:				
Education:				
Cost of Training:				
Specific Duties:				
oposino Banos.				
Online Resources (Use any Internet re			•	•
Boy Scouts of America: ► scouting.org		-		
► Scout ► Tenderfoot Pay Seaut Marit Padra Warkhacker			Rank Videos	
Boy Scout Merit Badge Workbooks: u All Fiber Arts: http://www.allfiberarts.com			Manf. Assn: http://www.fibe	
Amer. Sheep Industry Assn: http://www.s			History Museum: http://ww	
American Wool Council: http://www.american			aditional Textiles: http://ww	_
Fabrics.net: http://www.fabrics.net	noarwoon.org/		tp://www.fibersource.com/li	
FiberWorld: http://www.fiberworld.com			cil: http://www.mohairusa.c	
Nat. Cotton Council: http://www.cotton.or	·a/		e Fraternity: http://www.ttu.	
Books, Videos, and Plans: http://www.wc			ges: http://www.eng.auburn	•
Clemson University: http://mse.clemson.	•	-	of Tech: http://www.tfe.gate	•
Institute of Textile Technology: http://www		-	a State University: http://w	
Philadelphia University: http://fibers.philau.edu/		Clemson Apparel Research: http://car.clemson.edu/		
International Textile Center: http://www.it			Jniversity: http://sanangelo.	
Navy Clothing and Textile Research Fac			•	
Textile Research Institute: http://www.trip	•			
Yocom-McColl Testing Laboratories Inc.		<u>1/</u>		