



Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor. You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers. If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. 33216 - SKU 653801).

The requirements were last issued or revised in 2004 • This workbook was updated in June 2020.

Scout's Name:		Unit:	
Counselor's Name:	Phone No.:		Email:

http://www.USScouts.Org • http://www.MeritBadge.Org

Please submit errors, omissions, comments or suggestions about this <u>workbook</u> to: <u>Workbooks@USScouts.Org</u> Comments or suggestions for changes to the <u>requirements</u> for the <u>merit badge</u> should be sent to: <u>Merit.Badge@Scouting.Org</u>

1. Discuss with your merit badge counselor the importance of textiles. In your discussion, define the terms fiber, fabric, and textile.

lexille.	
Fiber;	
,	
Fabric	
Fabric;	
Textile:	

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2. Do the following:

- a.
 Get swatches of two natural-fiber fabrics (100 percent cotton, linen, wool, or silk; no blends).
 - Get swatches of two synthetic-fiber fabrics (nylon, polyester, acrylic, olefin, or spandex).
 - Get a sample of one cellulosic fabric (rayon, acetate, or lyocell).
- b. Give the origin, major characteristics, and general content of each type of fiber obtained for 2a.

Natural Swatch type:	
Origin:	
Major characteristics:	
General content:	
Natural Swatch type:	
Natural Owater type.	
Origin:	
Origin:	
Origin:	
Origin:	
Origin: Major characteristics:	

Synthetic Swatch type:	
Origin:	
Major characteristics:	
General content:	
Synthetic Swatch type:	
Origin:	
Major characteristics:	
• • • • •	
General content:	
Callulacia Swatch type:	
Cellulosic Swatch type:	
Origin:	
Major characteristics:	
General content:	

Explain the difference between a cellulosic manufactured fiber and a synthetic manufactured fiber.

c. Describe the main steps in making raw fiber into yarn, and yarn into fabric.

- Assume you will soon huy a new garment or other textile item. Tell your courselor what fiber or blend of fibers you
- d. Assume you will soon buy a new garment or other textile item. Tell your counselor what fiber or blend of fibers you want the item to be, and give reasons for your choice.

3. Do TWO of the following:

a. Visit a textile plant, textile products manufacturer, or textile school or college. Report on what you saw and learned.

Textile

				t, headband, place mat, or wall hanging. Use a simple loom that you have made yourself.
				ifying glass, examine a woven fabric, a nonwoven fabric, and a knitted fabric. Sketch what you see. the three constructions are different.
		Γ	•	
			Make a piece	
				tural dyes and use them to dye a garment or a piece of fabric.
			Waterproof a Demonstrate	how to identify fibers, using microscope identification or the breaking test.
4.		ain th	ne meaning c	of 10 of the following terms: warp, harness, heddle, shed, aramid, spandex, sliver, yarn, spindle, distaff,
	loom	n, cell	lulose, sericu	lture, extrusion, carbon fibers, spinneret, staple, worsted, nonwoven, greige goods.
		warp	p,	
		narr	ness,	
		hede	dlo	
		neut	uie,	
		shee	d.	
			-,	
		aran	nid,	

spandex,	
alivaa	
sliver,	
yarn,	
a u la alla	
spindle,	
distaff,	
loom	
loom,	
cellulose,	
coriculture	
sericulture,	

	extrusion,	
	carbon fibers,	
	spinneret,	
_		
	staple,	
	worsted,	
_		
	nonwoven,	
	greige goods.	

5. List the advantages and disadvantages of natural plant fibers, natural animal fibers, cellulosic manufactured fibers, and synthetic manufactured

	Advantages	Disadvantages
Natural plant fibers,		

Natural animal	
fibers,	
Cellulosic	
manufactured fibers	
Synthetic manufactured fibers	
manufactured fibers	

Identify and discuss at least four ecological concerns regarding the production and care of textiles.

1		
2		
3		

rexule		
4		
6. Ex	kplain to your merit badge couns	elor, either verbally or in a written report, five career possibilities in the textile industry.
1		
2		
3		
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4		
5		
	L	

Tell about two positions that interest you the most and the education, cost of training, and specific duties those positions require.

Position 1:	
Education:	
Cost of Training:	
Specific Duties:	
Position 2:	
Education:	
Cost of Training:	
Specific Duties:	

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.