



TEXTILE MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current *Scouts BSA Requirements*.

Consider also using the Textile merit badge class preparation page for clarification and expectations when participating in a Scoutmaster Bucky merit badge opportunity ([online](#) or [in-person](#)).

<https://scoutmasterbucky.com/merit-badges/textile/>

Scout's Name:

REQUIREMENT 1: Discuss with your merit badge counselor the importance of textiles. In your discussion, define the terms *fiber*, *fabric*, and *textile*. Give examples of textiles you use every day.

REQUIREMENT 2: Do the following:

REQUIREMENT 2 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).



REQUIREMENT 2 B: Give the origin, major characteristics, and general content of each type of fiber obtained for 2(a). Explain the difference between a cellulosic manufactured fiber and a synthetic manufactured fiber.

Fiber type	Origin	Characteristics	General content

Difference between cellulosic manufactured fiber and a synthetic manufactured fiber

REQUIREMENT 2 C: Describe the main steps in making raw fiber into yarn, and yarn into fabric.



REQUIREMENT 2 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.

REQUIREMENT 3: Do TWO of the following:

REQUIREMENT 3 A: Visit a textile plant, textile products manufacturer, or textile school or college. Report on what you saw and learned.

REQUIREMENT 3 B: Weave a belt, headband, place mat, or wall hanging. Use a simple loom that you have made yourself.

Completed

REQUIREMENT 3 C: With a magnifying glass, examine a woven fabric, a nonwoven fabric, and a knitted fabric. Sketch what you see. Explain how the three constructions are different.



Two large empty rectangular boxes for notes or drawings, one above the other.

REQUIREMENT 3 D: Make a piece of felt.

Completed

REQUIREMENT 3 E: Make two natural dyes and use them to dye a garment or a piece of fabric.

Completed

REQUIREMENT 3 F: Waterproof a fabric.

Completed

REQUIREMENT 3 G: Demonstrate how to identify fibers, using microscope identification or the breaking test.

Completed



REQUIREMENT 4: Explain the meaning of 10 of the following terms: warp, harness, heddle, shed, aramid, spandex, sliver, yarn, spindle, distaff, loom, cellulose, sericulture, extrusion, carbon fibers, spinneret, staple, worsted, nonwoven, greige goods.

Warp
Harness
Heddle
Shed
Aramid
Spandex
Sliver
Yarn
Spindle
Distaff
Loom
Cellulose
Sericulture
Extrusion



Carbon fibers
Spinneret
Staple
Worsted
Nonwoven
Greige goods

REQUIREMENT 5: List the advantages and disadvantages 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 care of textiles.

Natural plant fibers
Natural animal fibers
Cellulosic manufactured fibers
Synthetic manufactured fibers
Ecological concerns



REQUIREMENT 6: Explain to your merit badge counselor, either verbally or in a written report, five career possibilities in the textile industry. Tell about two positions that interest you the most and the education, cost of training, and specific duties those positions require.