



2024 Edition

# SCOUTMASTER BUCKY

## Textile Merit Badge

SCOUTS PARTICIPATING IN A SCOUTMASTER BUCKY MERIT BADGE OPPORTUNITY (ONLINE OR IN PERSON), PLEASE CONSIDER ALSO USING THE TEXTILE MERIT BADGE CLASS PREPARATION PAGE FOR CLARIFICATIONS, INSIGHTS, AND EXPECTATIONS.

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

### TEXTILE MERIT BADGE WORKBOOK

**REQUIREMENT 1:** Discuss with your merit badge counselor the importance of textiles.

Notes:

**REQUIREMENT 1:** Define the term fiber.

Notes:

**REQUIREMENT 1:** Define the term fabric.

Notes:

**REQUIREMENT 1:** Define the term textile.

Notes:

**REQUIREMENT 1:** Give examples of textiles you use every day.

Notes:



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**REQUIREMENT 2a:** Get swatches of two natural-fiber fabrics (100 percent cotton, linen, wool, or silk; no blends).

**REQUIREMENT 2b:** Give the origin, major characteristics, and general content of each type of fiber.

### NATURAL FIBER FABRIC 1

**Name:**

**Major Characteristics:**

*sample*

**Origin:**

**General Content:**



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### NATURAL FIBER FABRIC 2

Name:

Major Characteristics:

*sample*

Origin:

General Content:



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**REQUIREMENT 2a:** Get swatches of two synthetic-fiber fabrics (nylon, polyester, acrylic, olefin, or spandex).

**REQUIREMENT 2b:** Give the origin, major characteristics, and general content of each type of fiber.

### SYNTHETIC-FIBER FABRIC 1

**Name:**

**Major Characteristics:**

*sample*

**Origin:**

**General Content:**



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### SYNTHETIC-FIBER FABRIC 2

Name:

Major Characteristics:

*sample*

Origin:

General Content:



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**REQUIREMENT 2a:** Get a sample of one cellulosic fabric (rayon, acetate, or lyocell).

**REQUIREMENT 2b:** Give the origin, major characteristics, and general content of each type of fiber.

### CELLULOSIC FABRIC

**Name:**

**Major Characteristics:**

*sample*

**Origin:**

**General Content:**



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**REQUIREMENT 2b:** Explain the difference between a cellulosic manufactured fiber and a synthetic manufactured fiber.

Notes:

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

Notes:

**REQUIREMENT 2d:** 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.

Notes:



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**IN-PERSON CLASS:** THE MERIT BADGE COUNSELOR WILL FACILITATE THE TWO OPTIONS FOR REQUIREMENT 3 HOWEVER SCOUTS ARE ENCOURAGED TO REVIEW AND PREPARE AHEAD OF TIME IF ONE OR MORE REQUIREMENT COMPONENTS ARE OF PERSONAL INTEREST.

**ONLINE CLASS:** SCOUTS WILL NEED TO COMPLETE TWO OF THE FOLLOWING AND BRING THEIR WORK TO CLASS FOR REVIEW WITH THE MERIT BADGE COUNSELOR.

**DO TWO OF THE FOLLOWING (3A, 3B, 3C, 3D, 3E, 3F, or 3G) FOR REQUIREMENT 3**

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

Textile Facility and Location:

Person's Name and Position that you spoke with:

What you saw and learned:





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

This requirement component requires no workbook entry.

**This requirement must be reviewed with your merit badge counselor.**

**ONLINE CLASS:** If selected, be prepared to share how you accomplished your work.

**REQUIREMENT 3c:** 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.

### WOVEN FABRIC

Name:

Notes:

*sketch*

### NON-WOVEN FABRIC

Name:

Notes:

*sketch*



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### KNITTED FABRIC

Name:

Notes:

*sketch*

**REQUIREMENT 3d:** Make a piece of felt.

This requirement component requires no workbook entry.

**This requirement must be reviewed with your merit badge counselor.**

**ONLINE CLASS:** If selected, be prepared to share how you accomplished your work.

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

This requirement component requires no workbook entry.

**This requirement must be reviewed with your merit badge counselor.**

**ONLINE CLASS:** If selected, be prepared to share how you accomplished your work.

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

This requirement component requires no workbook entry.

**This requirement must be reviewed with your merit badge counselor.**

**ONLINE CLASS:** If selected, be prepared to share how you accomplished your work.

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

This requirement component requires no workbook entry.

**This requirement must be reviewed with your merit badge counselor.**

**ONLINE CLASS:** If selected, be prepared to share how you accomplished your work.



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### 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:



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**Yarn:**

**Spindle:**

**Distaff:**

**Loom:**

**Cellulose:**

**Sericulture:**

**Extrusion:**

**Carbon Fibers:**



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Spinneret:

Staple:

Worsted:

Nonwoven:

Greige Goods:





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

**Advantages**

**Disadvantages**

### NATURAL ANIMAL FIBERS

**Advantages**

**Disadvantages**



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### CELLULOSIC MANUFACTURED FIBERS

Advantages

Disadvantages

### SYNTHETIC MANUFACTURED FIBERS

Advantages

Disadvantages



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**REQUIREMENT 5:** Identify and discuss at least four ecological concerns regarding the production and care of textiles.

Ecological Concern #1:

Ecological Concern #2:

Ecological Concern #3:

Ecological Concern #4:





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**REQUIREMENT 6:** Explain to your merit badge counselor, either verbally or in a written report, five career possibilities in the textile industry.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

Career Opportunity #4:

Career Opportunity #5:

**REQUIREMENT 6:** Tell about two positions that interest you the most and the education, cost of training, and specific duties those positions require.

Selected Career Opportunity #1:

Educational Requirements:

Cost of Training:

Specific Duties:



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Selected Career Opportunity #2:

Educational Requirements:

Cost of Training:

Specific Duties:

