



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:



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:

