MERIT BADGE SERIES

PULP AND PAPER

BOY SCOUTS OF AMERICA®

STEM-Based
PULP AND PAPER

“Enhancing our youths’ competitive edge through merit badges”
Requirements

1. Tell the history of papermaking. Describe the part paper products play in our society and economy.

2. Learn about the pulp and paper industry.
   a. Describe the ways the industry plants, grows, and harvests trees.
   b. Explain how the industry manages its forests so that the supply of trees keeps pace with the demand.
   c. Tell how the industry has incorporated the concepts of sustainable forest management (SFM).
   d. Describe two ways the papermaking industry has addressed pollution.

3. List the trees that are major sources of papermaking fibers.
   a. Discuss what other uses are made of the trees and the forestland owned by the pulp and paper industry.
   b. Describe two ways of getting fibers from wood, and explain the major differences between them.
   c. Tell why some pulps are bleached, and describe the process.
4. Describe how paper is made. Discuss how paper is recycled. Make a sheet of paper by hand.

5. Explain what coated paper is and why it is coated. Describe the major uses for different kinds of coated papers. Describe one other way that paper is changed by chemical or mechanical means to make new uses possible.

6. Make a list of 15 pulp or paper products found in your home. Share examples of 10 such products with your counselor.

7. With your parent’s and counselor’s approval, do ONE of the following:
   a. Visit a pulp mill. Describe how the mill converts wood to cellulose fibers.
   b. Visit a paper mill and get a sample of the paper made there. Describe the processes used for making this paper. Tell how it will be used.
   c. Visit a container plant or box plant. Describe how the plant’s products are made.
   d. Visit a recycled paper collection or sorting facility. Describe the operations there.
   e. Using books, magazines, your local library, the Internet (with your parent’s permission), and any other suitable research tool, find out how paper products are developed. Find out what role research and development play in the papermaking industry. Share what you learn with your counselor.

8. Find out about three career opportunities in the papermaking industry that interest you. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.
Papermaking Resources

Scouting Literature
Chemistry, Energy, Engineering, Environmental Science, Fish and Wildlife Management, Forestry, Graphic Arts, Soil and Water Conservation, Sustainability, and Textile merit badge pamphlets

Visit the Boy Scouts of America’s official retail website at http://www.scoutstuff.org for a complete listing of all merit badge pamphlets and other helpful Scouting materials and supplies.

Books


Organizations and Websites
American Forest and Paper Association
1101 K St., NW, Suite 700
Washington, DC 20005
Telephone: 202-463-2700
Website: http://www.afandpa.org
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Robert C. Williams Museum of Papermaking
Renewable Bioproducts Institute
Mail code 0620, Georgia Tech
Atlanta, GA 30332-0620
Website: http://www.ipst.gatech.edu/amp/index.html

Society of American Foresters
5400 Grosvenor Lane
Bethesda, MD 20814-2198
Toll-free telephone: 866-897-8720
Website: http://www.safnet.org

Society of Wood Science and Technology
P.O. Box 6155
Monona, WI 53716-6155
Telephone: 608-577-1342
Website: http://www.swst.org/index.html

Technical Association of the Pulp and Paper Industry
Paper University
Website: http://www.tappi.org/paperu

Wisconsin Paper Council
5485 Grande Market Drive, Suite B
Appleton, WI 54913
Telephone: 920-574-3752
Website: http://www.wipapercouncil.org