



# Pulp and Paper

## Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: [Online Resources](#).  
Workbook developer: [craig@craiglincoln.com](mailto:craig@craiglincoln.com). Requirements revised: 2006, Workbook updated: April 2008.

Scout's Name: \_\_\_\_\_ Unit: \_\_\_\_\_

Counselor's Name: \_\_\_\_\_ Counselor's Ph #: \_\_\_\_\_

1. Tell the history of papermaking. \_\_\_\_\_  
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Describe the part paper products play in our society and economy. \_\_\_\_\_  
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2. List the trees that are the major sources of papermaking fibers. \_\_\_\_\_  
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Then discuss what other uses are made of the trees and of the forestland owned by the pulp and paper industry. \_\_\_\_\_  
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Describe the ways the industry plants, \_\_\_\_\_  
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\_\_\_\_\_

grows, \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and harvests trees. \_\_\_\_\_  
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Explain how the industry manages its forests so that the supply of trees keeps pace with the demand, \_\_\_\_\_

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and tell about one way the industry has incorporated a sustainable forestry concept. \_\_\_\_\_

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Give two ways the papermaking industry has addressed pollution. \_\_\_\_\_

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3. Describe two ways of getting fibers from wood, and explain the major differences. \_\_\_\_\_

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Tell why some pulps are bleached, \_\_\_\_\_

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and describe this process. \_\_\_\_\_

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4. Describe how paper is made. \_\_\_\_\_

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Discuss how paper is recycled. \_\_\_\_\_

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Make a sheet of paper by hand. \_\_\_\_\_

5. Explain what coated paper is \_\_\_\_\_

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and why it is coated. \_\_\_\_\_

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Describe the major uses for different kinds of coated paper. \_\_\_\_\_

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Describe one other way that paper is changed by chemical or mechanical means to make new uses possible? \_\_\_\_\_

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6. Make a list of 15 pulp or paper products found in your home. \_\_\_\_\_

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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. \_\_\_\_\_

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  - 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. \_\_\_\_\_

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  - c. Visit a container plant or box plant. Describe how the plant's products are made. \_\_\_\_\_

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  - d. Visit a recycled paper collection or sorting facility. Describe the operations there. \_\_\_\_\_

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  - 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. \_\_\_\_\_

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Find out what role research and development play in the papermaking industry. Share what you learn with your counselor. \_\_\_\_\_

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8. Find out about three career opportunities in the papermaking industry that interest you. \_\_\_\_\_

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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. \_\_\_\_\_

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**Online Resources** *(Use any Internet resource with caution and only with your parent's or guardian's permission.)*

**Boy Scouts of America:** ▶ [scouting.org](http://scouting.org) ▶ [Guide to Safe Scouting](#) ▶ [Age-Appropriate Guidelines](#) ▶ [Safe Swim Defense](#)  
▶ [Scout](#) ▶ [Tenderfoot](#) ▶ [Second Class](#) ▶ [First Class](#) ▶  [Rank Videos](#) ▶ [Safety Afloat](#)

**Boy Scout Merit Badge Workbooks:** [usscouts.org](http://usscouts.org) -or- [meritbadge.org](http://meritbadge.org)    **Merit Badge Books:** [www.scoutstuff.org](http://www.scoutstuff.org)

American Forest and Paper Association: <http://www.afandpa.org>

Robert C. Williams Paper Museum: <http://www.ipst.gatech.edu/amp>

Society of American Foresters: <http://www.safnet.org>

Society of Wood Science and Technology: <http://www1.fpl.fs.fed.us/swst/index.html>

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

Wisconsin Paper Council: <http://www.wipapercouncil.org>