



# Pulp and Paper

## Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information.

You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

**Merit Badge Counselors may not require the use of this or any similar workbooks.**

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. 33216 – SKU 653801).

The requirements were last issued or revised in 2017 • This workbook was updated in June 2020.

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

Counselor's Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_ Email: \_\_\_\_\_

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: [Workbooks@USScouts.Org](mailto:Workbooks@USScouts.Org)

Comments or suggestions for changes to the **requirements** for the **merit badge** should be sent to: [Merit.Badge@Scouting.Org](mailto:Merit.Badge@Scouting.Org)

### 1. Tell the history of papermaking.


Describe the part paper products play in our society and economy.


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## 2. Learn about the pulp and paper industry.

- a. Describe the ways the industry plants, grows, and harvests trees.

Plants:


Grows:


Harvests:


- 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 concept of sustainable forest management (SFM).


- d. Describe two ways the papermaking industry has addressed pollution.

1.


2.


3. Name at least four types of trees that are major sources of papermaking fibers. Then do the following:


- 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.

1.


2.


- c. Tell why some pulps are bleached, and describe this 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 paper.


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.

1.		6.		11.	
2.		7.		12.	
3.		8.		13.	
4.		9.		14.	
5.		10.		15.	

☐ 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.

- 1.
- 2.
- 3.


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.

Career:

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Education:


Training


Experience:


Explain why this profession might interest you.


When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf>.

You can download a complete copy of the *Guide to Advancement* from <http://www.scouting.org/filestore/pdf/33088.pdf>.