T1. 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.

|  |  |
| --- | --- |
| 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 or guardian'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 or guardian'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: |  | |
| 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**](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**](http://www.scouting.org/filestore/pdf/33088.pdf)**.**