



materials for the arts

Recycling Paper - Paper-making

Teacher: Eileen Lew

Title of Lesson Plan: Recycling Paper

Grade: 2

Subject Area: Science

Standards: RI.1, SL.1, SL.2, SL.3

Learning Objectives: The students will be able to...

1. Students will learn about recycling paper
2. Students will learn how handmade paper is made by recycling used paper

Materials: scrap paper (white), blender, water, framed screen, couch sheets, sponge, large plastic tub, cloth screen, plastic needlepoint canvas, small plastic containers

Vocabulary words: pulp

Procedure:

1. Gather the students on the rug. Have them sit on the perimeter.
Ask...What does recycling mean?
 - a. *Why is it important to recycle?*
 - b. *Who has made paper before?**Write responses onto chart tablet.*
2. Show and pass around a sample of handmade paper and a sheet of regular paper. Turn to a partner and discuss what you have noticed about the difference between the handmade paper and the regular paper.
3. Compare and contrast- Handmade paper vs. regular paper
Write responses onto a Venn Diagram

Modeling and practice-

1. Fill half of the larger plastic tub with water
2. Working with a partner, shred paper and put it into the blender. Add water and blend.
3. Pour pulp into a smaller plastic container
4. Put frame over the plastic tub and pour the pulp onto the frame
5. Put the frame over the water and shake frame gently to even out the pulp
6. Put the cloth screen over the pulp and with the sponge, press gently down on the screen
7. Press as much water out as possible
8. Remove the screen and put the couch sheet over the paper and flip over the frame
9. Tap both frame and couch sheet on the table and remove paper gently onto the couch sheet
10. Put the plastic canvas onto the couch sheet and flip it over. Remove couch sheet
11. Put the plastic canvas onto the drying shelf and let dry.

Share:

1. Gather the students on the rug. Have them sit on the perimeter.
2. Have students share what they noticed about the process of making paper.
3. Ask: How did the pulp feel?
 - a. What did they learn about making paper?
 - b. Do they have any questions about the activity?



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Follow up:

- Make more paper using/adding other materials
- Read aloud- Trees to Paper by Inez Snyder
- Make cards for special occasions
- Make a class collage with scraps (leftovers from making the cards)

Additional Resources

Books:

- Trees to Paper By Inez Snyder (used for read aloud)
- Papermaking with Garden Plants and Common Weeds By Helen Hiebert
- The Papermaker's Companion: The Ultimate Guide to Making and Using Handmade Paper By Helen Hiebert
- Papermaking Techniques Book: Over 50 Techniques for Making and Embellishing handmade Paper By Helen Hiebert
- The Art of Papermaking By Bernard Toalie
- On Paper: The Everything of the Two-Thousand Year History By Nicholas A. Basbanes
- Papermaking: The History and Technique of an Ancient Craft By Dard Hunter

Internet:

- www.papermakingresources.com
- arnaldgrummer.com
- handpapermakingcommunity.wordpress.com
- paperslurry.com
- paperonweb.com/pmake.htm