

Marbelizing Paper
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Grade 9

Keywords/ Subjects Covered: Paper Recycling-an example of sustainability, pulp, flax, marbalizing technique, ecosystem, cellulose.

Brief Description: After reading about the history of paper making, students will create their own marbalized paper form recycled paper products.

Total Time Required:
90-minute class period

Lesson Objectives/Goals:

Gaining an appreciation for our forests and its uses
Understanding that paper comes from trees, cotton and flax
Understanding uses for recycled paper
Understanding paper history

Materials needed for making marbeled paper:

Water, eye droppers, small bowls, Alum (found at the grocery store in the spice section), recycled white paper, sponge, 12" x 9" x 3" cake pan, acrylic paint, paper towels newspaper or plastic to cover work surface.

Standards Addressed: (Private School, N/A)

Procedure:

First, treat your paper with Alum.

Put 4 Tablespoons of Alum in one quart of water. Use a sponge to transfer the solution onto the paper. Allow this to dry.

Put approximately two tablespoons of Acrylic paint into a bowl. The consistency needs to be slightly thicker than milk. Add water if necessary to thin and mix well. Use separate bowls for each color.

Fill the cake pan with approx. two inches of water. Using the eye dropper, drop several drops of color onto the water. The paint should float. If it sinks right to the bottom, it's too thick; thin it down.

Slide a piece of paper into the water, disturbing the paint and water as little as possible. Lay the paper flat on the bottom of the pan. Use a fork to swirl the color. Slowly lift the paper and lay it aside on paper towels to dry.

Assessment:

Ask the students to fill out evaluation forms for each other. ON the form, have them answer the following questions:

1. How would you grade the quality of the paper?
2. What is your opinion of the texture and color choices?
3. Rate the quality on a scale of 1-10 and describe why.
4. What criteria would you use to assess the quality of the finished product?
5. What would you suggest as uses for the finished product?
6. What is the most important quality of the finished product to you and why?

Literature Cited/ References:

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