Recycling for Kids

Jessica Fink
Janice Freeman
Maureen Goble

Academic Content Standards

- Earth and Space Science
  - K-2 Science Benchmark
    - "D. Describe what resources are and recognize some are limited but can be extended through recycling or decreased use."

First Grade Benchmarks

- Earth and Space Sciences
  - Earth Systems
    - "1. Identify that resources are things that we get from the living (e.g., forests) and nonliving (e.g., minerals, water) environment and that resources are necessary to meet the needs and wants of a population."
    - "2. Explain that the supply of many resources is limited but the supply can be extended through careful use, decreased use, reusing and/or recycling."

Physical Science

- **Nature of Matter**
  - "4. Explore changes that greatly change the properties of an object (e.g., burning paper) and changes that leave the properties largely unchanged (e.g., tearing paper)."

Science and Technology

- **Understanding Technology**

  - "3. Identify some materials that can be saved for community recycling projects (e.g., newspapers, glass and aluminum)."

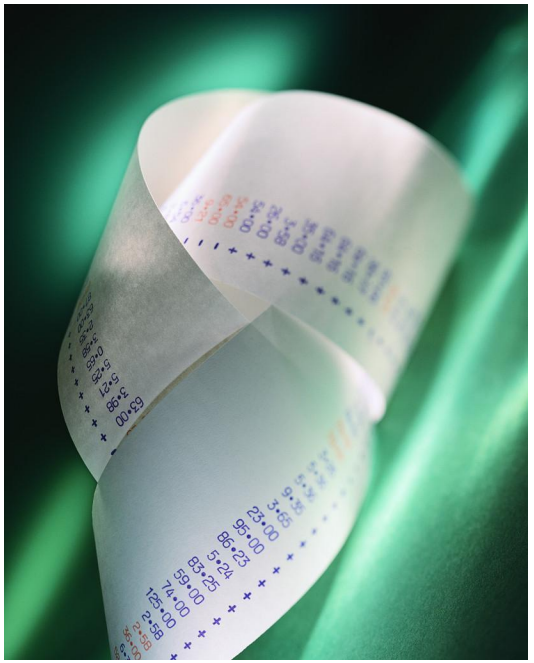
Materials

- Paper, lots and lots of recycled paper
- Large buckets
- 1 Gallon of warm water
- Bleach
- Blender
- Screens
- Paper and Pens to label each student's recycled paper

Procedure

Step One:

1)Students will tear or cut recycled pieces of paper into small scraps.



Step 2

- Small pieces will be put into large buckets on each table.

Step 3

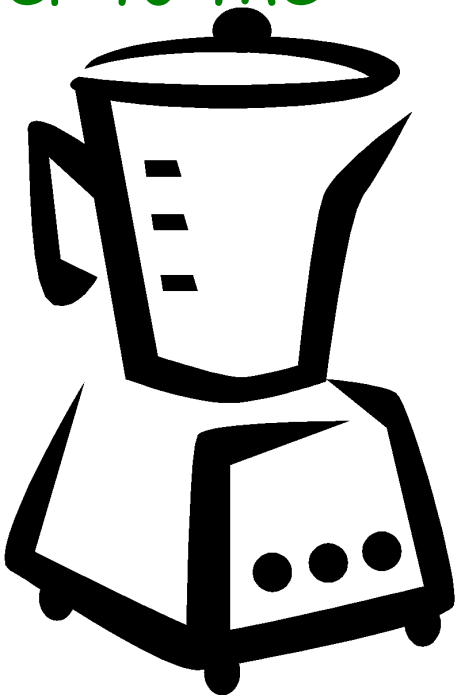
- The teacher and students will mix about a gallon of warm water and 1 tsp of bleach.

Step 4

- Add the mixture to the torn paper (keep adding water until the paper is completely covered) and let it sit for thirty minutes minimum.

Step 5

- Put one cup of soaked paper and two more cups of bleach in a blender. (If the mixture doesn't blend easily add more water to the blender)



Step 6

- Pour this paper into the mixture into a new bucket and repeat this process until all the mixture has been blended.

Step 7

- Dip the screen into the new bucket and lift it up.

Step 8

- Press the excess water out of the mixture on the screen.

Step 9

- Lay the damp mixture on newspapers to dry.

Step 10

- With a separate sheet of paper label each student's drying mixtures with their name.

References

- Lesson Plan Information found at the following website: http://www.fi.edu/fellows/fellow1/apr99/paper/step10.html
- Recycling information obtained at the following website: www.wm.com
- Science Academic Standards found at the Ohio Department of Education Website
  - http://www.ode.state.oh.us/GD/Templates/Pages/ODE/ODEDetail.aspx?page=3&TopicRelationID=334&ContentID=834&Content=25863