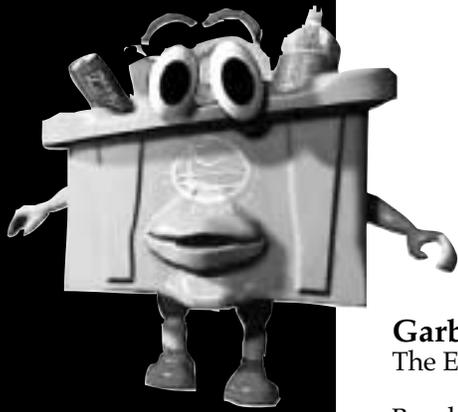


A Fourth Grade Activity

Garbage Pizza!



Garbage Pizza! A Fourth Grade Activity

The East Baton Rouge Recycling Program

- Benchmarks: Science** **SE-E-A3** identify ways in which humans have altered their environment both in positive and negative ways, either for themselves or other living things. **SE-E-A4** understanding that the original sources of all material goods are natural resources and that the conserving and recycling of natural resources is a form of stewardship.
- Math** **D-1-E** constructing, organizing, and describing data based on real-life situations. **D-2-E** constructing, reading, and interpreting data in charts, graphs and tables.

Concept: Municipal Solid Waste (MSW) contains a variety of materials that can be recycled or reused as well as materials that must be landfilled for health reasons.

Objectives

- To identify the components of Municipal Solid Waste
- To compare and contrast materials that must be landfilled with those that can be reused or recycled
- To understand the importance of recycling or reusing materials

Materials

Per class:

- chart paper

Per group of four students:

- Garbage Pizza ingredients:
 - newspaper and other paper scraps (paper)
 - leaves, twigs, grass clippings (represent yard trimmings)
 - Styrofoam (plastics)
 - fabric and leather scraps, rubber bands (other: rubber, leather, textiles)
 - paper clips, aluminum foil (metals)
 - rice, pasta, beans (food)
 - marbles (glass)
 - wood (craft sticks, wood chips)
- glue
- paper plate
- printed MSW pie chart (cut out and glue to paper plate for stability)

Time Frame: One class period

Background Information:

Trash and garbage from households, businesses, and institutions are sent to our landfill as Municipal Solid Waste. Many of the landfilled items could be composted, reused, or recycled. **Composting** converts yard waste into a valuable soil amendment for gardening. **Reusing** is using a product again, either for its original purpose, or in a completely different way. For example, a milk jug could be used as a watering can for plants, or a bird feeder, etc. **Recycling** is the process of making new products out of used materials. When recycling aluminum cans, for example, the aluminum is melted, pressed into sheets, and reformed into a new product.

Items currently recycled by the East Baton Rouge Recycling Program include: aluminum cans, aluminum foil, or pie pans, glass, plastics 1 and 2, tin (steel) food and beverage cans, aseptic containers (plastic coated paper drink boxes and milk cartons), newspaper, corrugated cardboard and scrap (mixed) paper. A more complete listing is available on the recycling office web site at www.ci.baton-rouge.la.us/recycle.

Through **reducing** the amount of waste generated, **composting**, **reusing** products, and **recycling**, landfill space is saved, energy costs and natural resources are conserved, and pollution is minimized.

4TH GRADE



**ASSOCIATED
FOOD STORES**



Georgia-Pacific



Materials provided by the
City of East Baton Rouge-
Parish of East Baton Rouge
Recycling Office

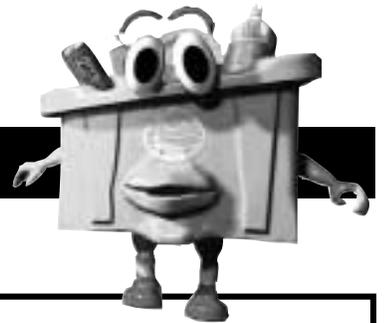
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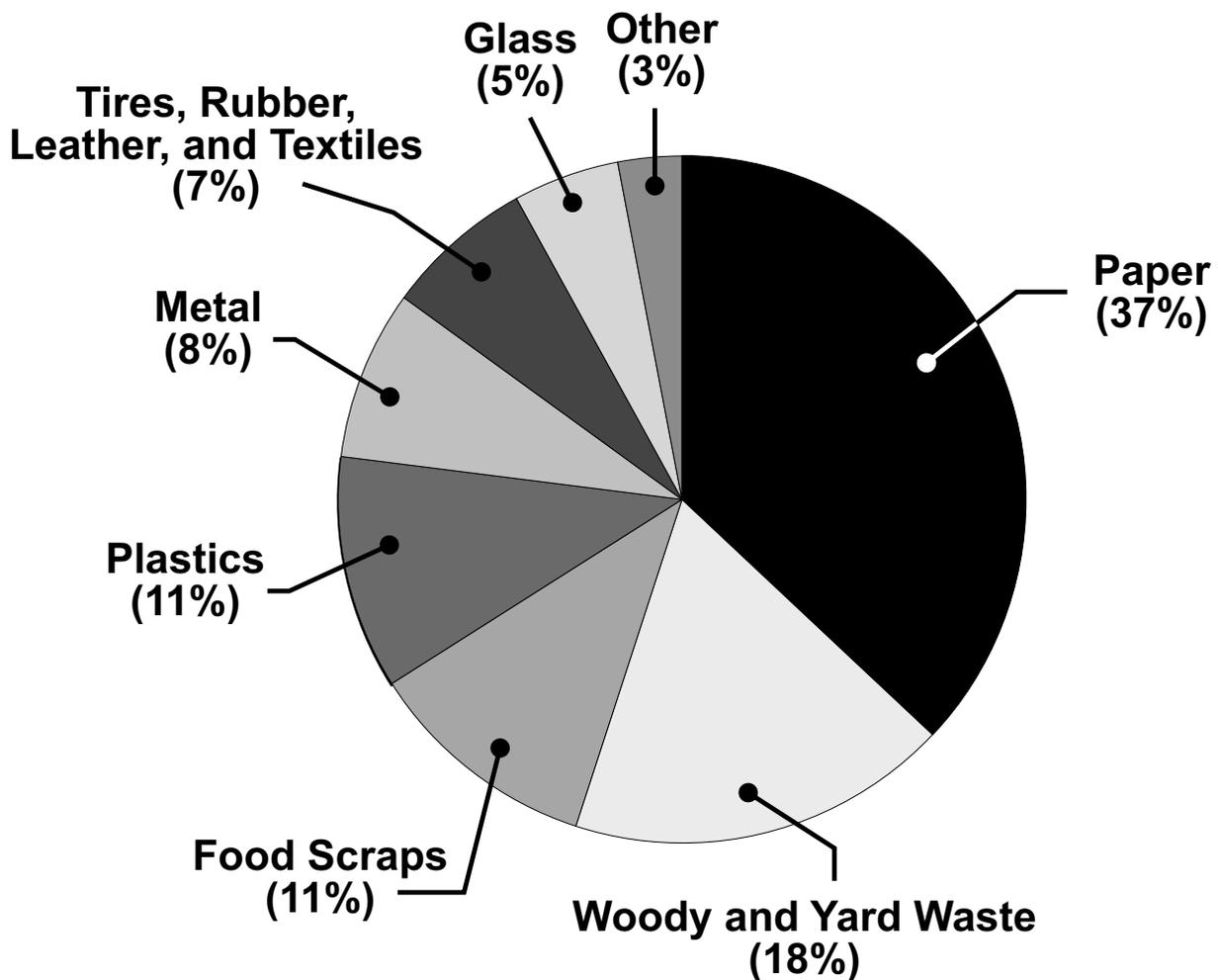
e-mail:

recycle@ci.baton-rouge.la.us

Printed on Recycled Paper. Please Recycle.



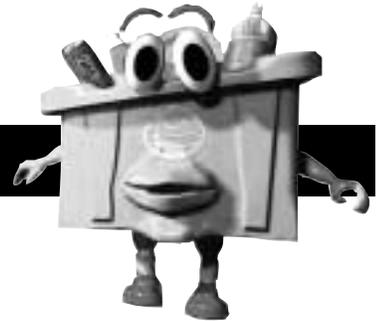
2000 National Total Solid Waste Generation — 232,000,000 Tons Before Recycling



REMEMBER TO REDUCE, REUSE, AND RECYCLE!

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Procedure

- Introduce the Garbage Pizza activity by having the students brainstorm the kinds of items that might be in the garbage collected in Baton Rouge. List all ideas on a chart.
- As a large group, have students examine the material in the classroom trash can.
- Show the pie chart on the overhead and compare the data with that collected by the class. Note any similarities and differences.
- Discuss the implications of the percentages in each category.
- Distribute materials and have students construct their garbage pizzas by gluing the various materials to the appropriate sections on the pie charts. Display their pizzas.
- Distribute

Discussion

How did the materials listed in the MSW chart compare with those found in your garbage can in our first lesson? Were they about the same/different? What could account for the differences? Why do you think it may be important to look at the amounts garbage that are thrown away? Can everything be recycled or reused? Why? Why not? It is expensive to keep our landfill in operation. The more we reuse or recycle materials, the longer our landfill will be available for those items that must be there, i.e., contaminated waste, etc. How can we cut down on the amount of garbage we send to the landfill? What are some materials we can recycle?

Bridging from the Classroom to Real Life

What does the garbage pizza have to do with you at home? Can you think of some ways you could keep from throwing some of the materials in the trash to be taken to our landfill? If we did not put some of the items in the trash, what could we do with them? What items do you recycle or reuse at home/school?

Extensions

- Conduct a survey to find out if and how recycling is practiced at your school.
- Conduct a survey to determine the number of students/teachers recycling at home and the most common items recycled.
- Allow students to visit the EPA web site for students at:
www.epa.gov/recyclecity or www.epa.gov/reg3ocgr/ee.kids.htm or
<http://www.epa.gov/epaoswer/non-hw/recycle/gremlin/note.htm> for more activities.
- Visit the recycling office web site at www.ci.baton-rouge.la.us/recycle

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