

Billy B.
RECYCLE MANIA
Study Guide

I. OBJECTIVES

1. To define the reasons for recycling.
2. To identify the natural resources and energy used in producing recyclable products.
3. To identify the common problems communities have in dealing with their garbage.
4. To demonstrate and explain how nature recycles all living matter.
5. To tell the students about the practical everyday recycling activities each of us can do.

II. CONTENT

A. OPENING

The program opens with Billy B. referring to his multilayered backdrop's picture of the earth as the "greatest recycling center." He then reviews the many ways in which the earth's ecosystem recycles air, water and soil. Billy picks volunteers to dance with him as he sings "These Trees." In this song, Billy B. and the kids act out the natural air, soil, and water recycling activities of every plant.

B. BODY OF THE SHOW

Continuing with his audience participatory song and dance style, Billy B. explores the three reasons for recycling. "We recycle to save space, energy, and nature." This includes the use and abuse of landfills, the harvesting of the natural resources used in making recyclable products, and a pragmatic approach to daily recycling.

C. END

Billy then reviews the major concepts while the children participate in the review with movements and chants. Finally, Billy does a short reprise of "Just One Question," so the children leave singing "Re Re Recycle."

PRE-PERFORMANCE ACTIVITIES

1. Have the children list the things they presently recycle at their home. This can be done on the blackboard with the whole class adding to one list. When the children

have exhausted their ideas, then add the things they have missed, i.e., magazines, phone books, composting kitchen scraps, cardboard, etc. Talk about the different types of recycling collections, such as curbside pickup, drop-off locations. Identify each recyclable product's collection type and the address of the local drop-off locations.

2. Have the students identify the natural resources used in making each product they recycle from their home. Have the students identify some of the possible locations where the natural resources came from. How are these natural resources harvested? How are they then shipped to the processing plant? With upper elementary children the basic procedure of the processing could be explained and researched.
3. Have the students identify any of nature's many recycling processes.
4. Have the students relate stories of dump visits or recycling runs.

POST PERFORMANCE ACTIVITIES

1. Have the students review how and where they save space, energy and nature by recycling.
2. Have the students put a clear plastic bag over an indoor plant to prove the transpiration process, (water and atmosphere recycling).
3. Have the students research the local dump or landfill history. Is there a local dump or landfill? Was there one? If so, is it now full and therefore closed? Has a park or buildings been built upon the old dump? Does the local community have to ship its garbage somewhere else? Are there any estimates as to what this costs? Can this cost be equated into a daily cost ?
4. Purchase a worm bin for the classroom (approximately \$75) so the students can see one of nature's greatest recyclers at work. Call Flowerfield Enterprises at 616-327-0108

VOCABULARY		
recycle	metal ore	photosynthesis
reuse	pulp	compost
reduce	saw dust	soil
aluminum	exhaust	minerals
bauxite	landfill	fuel
leeching	processed	natural resources

READING MATERIAL

1. *About Garbage and Stuff*- Author–Anne Zane Shanks, Viking Press (Photos with paragraphs, primary grades)
2. *Recyclopedia*- Author–Robin Simons, Houghton Mifflin (creating things out of waste materials, all elementary)
3. *Where Does the Garbage Go ?*–Author - Paul Showers, Crowell (illustrated, storybook form, primary grades)
4. *Too Much Garbage*- Author–Patricia Lauber, Garrard (Photos with stories, mid- and upper elementary)

AUDIO VISUAL MATERIAL

Billy B.'s audio tape, Recycle Mania or the video, Wormania that features Billy B., his own kids James, Shannon, and Julian and "The Worm Woman of Kalamazoo, Mary Appelhof," call 1-800-4 Billy B. (1-800-424-5592).

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