LESSON: Beginning Playground Pick Up GRADE: 2

OBJECTIVES:

Mathematics
Measurements & Data
Represent and interpret data-

- **2.MD.D.10** Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

Physical Education

- **P.E. Standard 5** - Exhibits responsible personal and social behavior that respects self and others in physical activity settings.

MATERIALS & RESOURCES:

- Recycled plastic bags
- Protective gloves
- Digital camera
- Computer & printer
- Poster paper
- Glue sticks
- Save Our Earth guide sheet
- Examples of picture or bar graphs

PRESENTATION:

Explain that we'll be going to the playground with plastic bags and wearing gloves to pick up garbage. We'll then sort it into 4 categories. Brainstorm as a class what the categories should be, (i.e. glass, plastic, paper, food, etc.) Using digital cameras, students will take photos of what they've collected. We'll then return to our classroom and use the info and photos to make graphs and posters.

DIRECTIONS:

1. Pick up trash on the playground, using gloves and recycled plastic bags. Sort trash into the four categories, and take digital photos of each category.
2. Back in the classroom, discuss which category had the most or least items in it. Have students make bar or picture graphs of the amounts in each category, using photos as reference. Brainstorm ideas for ways some of the trash could have been reused.
3. Using the photos and student illustrations, create posters of alternative uses for the trash.
4. Display the posters or have class share with other classes what they have learned about recycling.

TIME: **2 hours**

PROCESSING THROUGH THE SIX PILLARS:

WHAT?

- What kinds of rubbish did you find?
- What kinds of rubbish did you find that was most likely generated from students of this school?
- What kinds of rubbish did you find that was most likely generated from a visitor to this school?

SO WHAT?

- How does seeing the rubbish on the playground make you feel about your school?
- Who is responsible to pick up trash, even if they didn't put it there?

NOW WHAT?

- Do we have a choice to be a part of the rubbish problem or a part of the rubbish solution?
- What can we do as a school community to be a part of the rubbish solution?

Save Our Earth! Alternate Uses for Common Trash

Each year, the Ocean Conservancy organization holds an International Coastal Cleanup Day, when volunteers from countries all over the world clean up debris from the ocean and surrounding land. This table lists the type and amount of debris found along coasts during the cleanup day in 2008.

Rank	Debris Items	Number of Pieces of Debris
1.	Cigarettes/cigarette filters	3,177,121
2.	Bags (plastic)	1,356,352
3.	Food wrappers/containers	927,110
4.	Beverage bottles (plastic), 2 liters or less	911,894
5.	Caps, lids	692,494
6.	Bags (paper)	524,051
7.	Straws/stirrers	501,077
8.	Cups/plates/forks/knives/spoons	424,770
9.	Beverage bottles (glass)	415,202
10.	Beverage cans	375,728
	Total Top 10 Debris Items:	9,305,809
	Total Debris Items Worldwide:	**11,174,642**