



### Utah Core Objectives

Fourth Grade  
Science Std 1, Obj. 2x  
Math Stds. 1 & 2  
Health Education Std. 7

### Objectives

- Students learn about different types of hazardous materials and can state why they are hazardous to humans, fish, birds and all wildlife
- Students are introduced to a ground water diagram of a land-fill that is open
- Students can state how hazardous materials can get into water sources and humans, fish, birds and all wildlife and state how to prevent this from happening
- Given a full trash can, students can identify recyclables and hazardous materials and graph the results

### Materials Needed:

- "Recycle!" by Gail Gibbons
- Worksheet for each student.  
Note: for large groups, save paper by using the last page cut in half
- Trash can, bin or plastic bag with "hazmat" and recyclables. See instructions for "prior to the class."
- Local hazardous material disposal guides/brochures.
- Crayons or colored pencils or markers
- Pencils

### Time

- 30-50 minutes

For more information contact:

**Recycle Utah**  
1951 Woodbine Way  
PO Box 682998  
Park City, UT. 84068  
(435) 649-9698  
www.recycleutah.org

## CLEAN WATER/NO POISONS

Do you have hazardous material at your house?  
How can we keep our water clean?

### Prior to the class

Become familiar with the first four pages of *Recycle! A Handbook for Kids* by Gail Gibbons and the handouts

Prepare at least 4 trash cans, bins or plastic bags with roughly:

1. 5 containers of hazardous material (closed, sealed containers)
2. 10 recyclables (empty & clean)

### Common Household:

Oven cleaner  
Drain openers (Draino, etc)  
Furniture polish (Pledge, etc)  
Scrubbers (Soft scrub with bleach etc)  
Nail polish & nail polish remover  
Medicine

### Garage & Basement:

Antifreeze  
Car batteries  
Gasoline, diesel and fuel additives  
Used oil, brake & transmission fluids  
Paints, paint thinners, stains and finishes  
Pool & spa chemicals  
Weed killer  
Thermostats  
Smoke detectors

Distribute worksheets and local hazardous materials disposal guidelines to each child.

### Instructions

#### What is hazardous material?

Display the sample hazmat containers and discuss the definition of hazardous material. Have students read selected labels and discuss the poison symbol.

- **Have students complete page 1 of their handouts.**

- continued next page-



## CLEAN WATER/NO POISONS

- Continued -

### How can hazardous material harm people, fish, birds and all-wildlife?

Read aloud the first four pages of *Recycle! A Handbook for Kids* by Gail Gibbons. Show students the picture of the landfill. Spend time on the information describing the landfill diagram. Make sure students understand how ground water fits into the water cycle and that ground water eventually flows to oceans.

### How should we dispose of hazardous material to protect our water sources and all living things?

1. Emphasize that the most important rule is to dispose of hazmat properly. Review the local handouts.
2. Make sure students understand that recycling prevents waste from going to the landfill and entering the ground water that can harm living things.

### Final Activity

Divide students into 4 teams and give each team one of the trash cans you have prepared. Have teams complete page 2 of their handouts. Review each teams' answers when they have finished.

**Final Message:** We need to keep our water clean. Dispose of hazmat properly.

### Helpful definitions

- Hazardous material, "hazmat" — poisonous items
- Leachate — contaminated rainwater that percolates down through soil

### Suggested Additional Activities

*Recycle! A Handbook for Kids* by Gail Gibbons

*Garbage & Recycling: Environmental Facts a& Experiments* by Rosie Harlow and Sally Morgan

Card Game: *Concentration*. The "suits" are Hazmat items, recyclables, compostables and thrift store items.

This lesson plan  
made possible by a  
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Foundation.

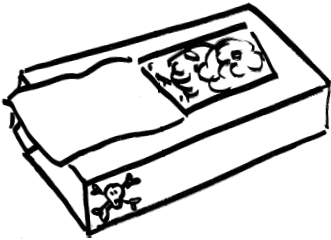


# Clean Water/NO Poisons



My name is: \_\_\_\_\_

Draw lines from the hazardous material to its name.



Flammable liquids



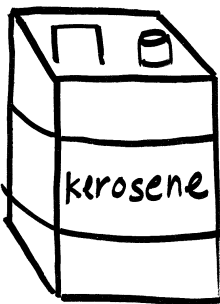
Batteries



Full cleaning materials



Rodent poison



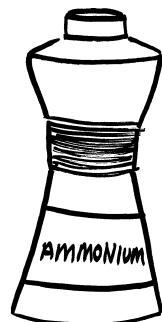
Motor oil



Medicines



Car fluids



Weed killer

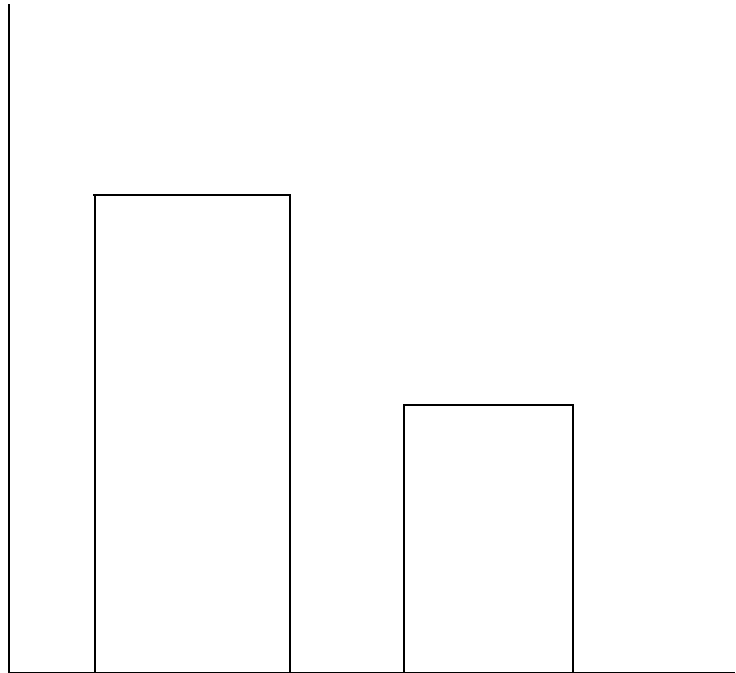
### Teamwork

Create a bar chart of your team's trash can. Show how many items are:

- Recyclables
- Hazardous Material

Color the "hazmat bar"

**RED.**



How does hazardous material enter the ground water and harm fish and wild life?

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How will you tell your parents to dispose of the hazardous material in your house?

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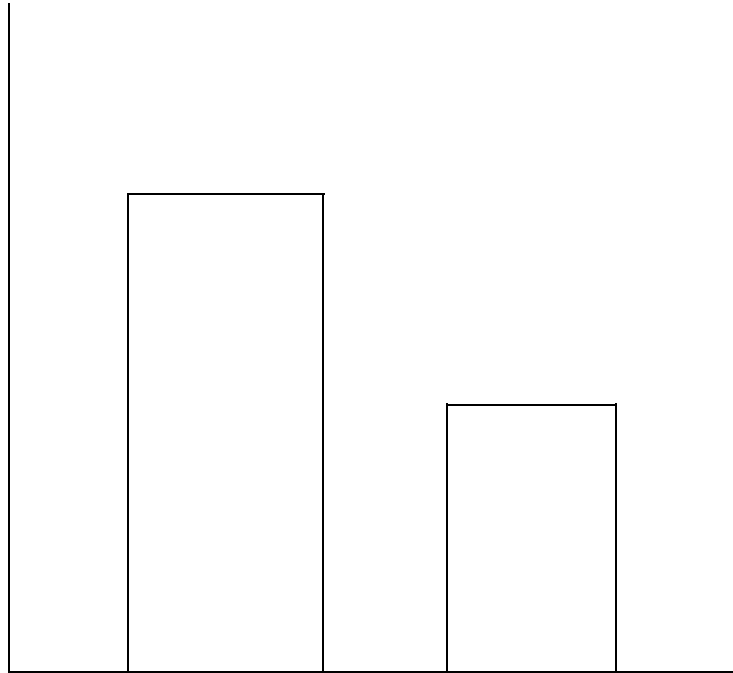
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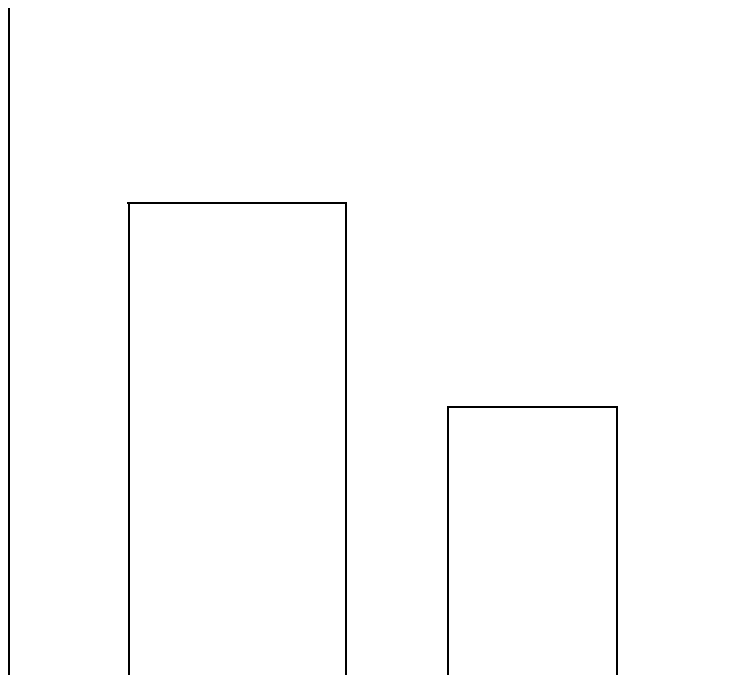
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