

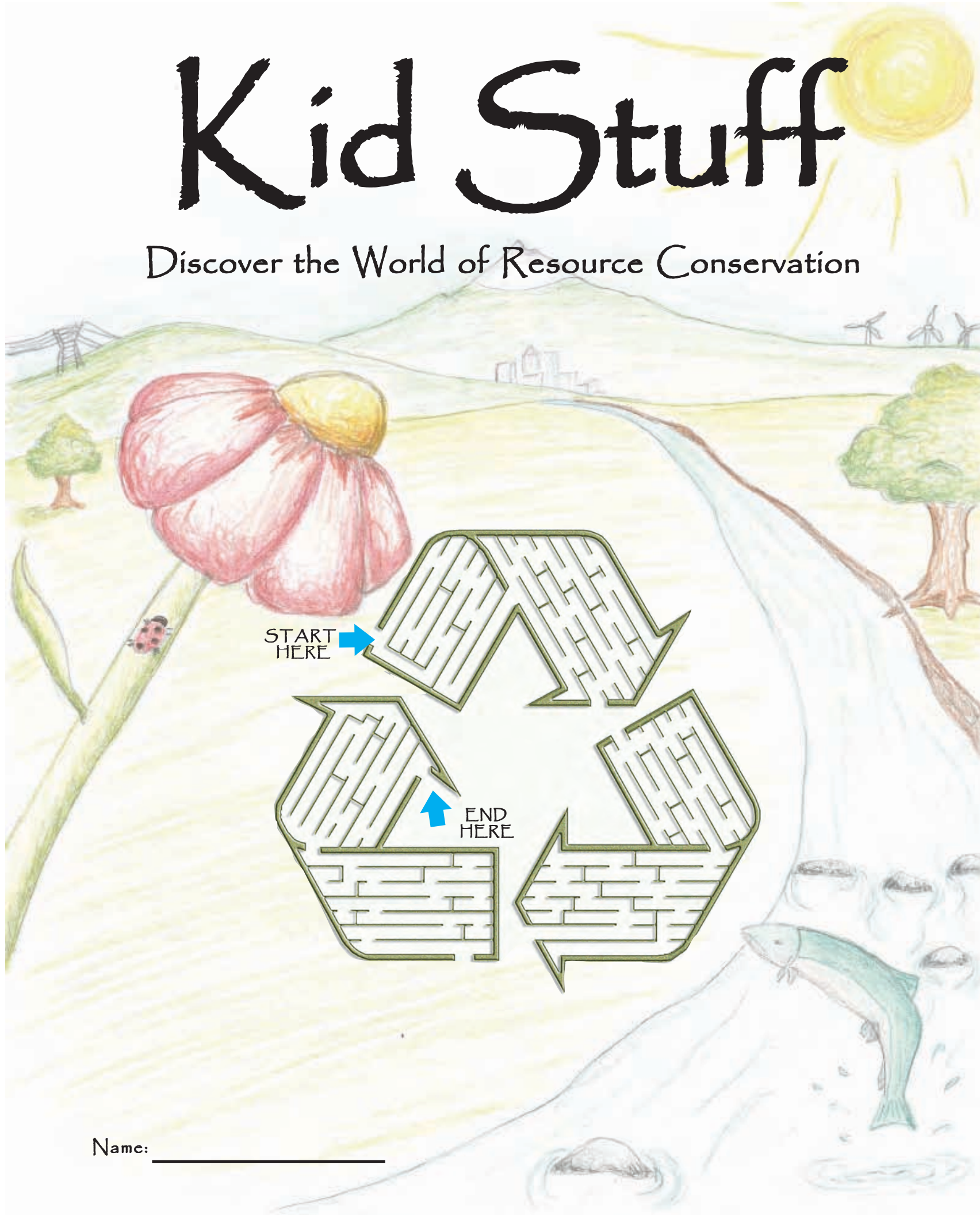
Kid Stuff

Discover the World of Resource Conservation

START
HERE

END
HERE

Name: _____





Welcome to the World of Resource Conservation

Natural resources are things from nature, like trees, water, rocks and minerals. Natural resources are used to make stuff, like our lunch bags, beverage cans, energy and everything else that we use. Everything we need is connected back to nature, and so we, too, are a part of the world's natural cycle.

Living **sustainably**, meeting our needs without compromising the ability of future generations to meet theirs, ensures this cycle continues. This booklet takes a look at choices we make almost every day with our natural resources.

Explore... Discover... Take Action...

Have fun!

s
Lunch



REDUCE: Don't waste anything
RECYCLE: all you can.

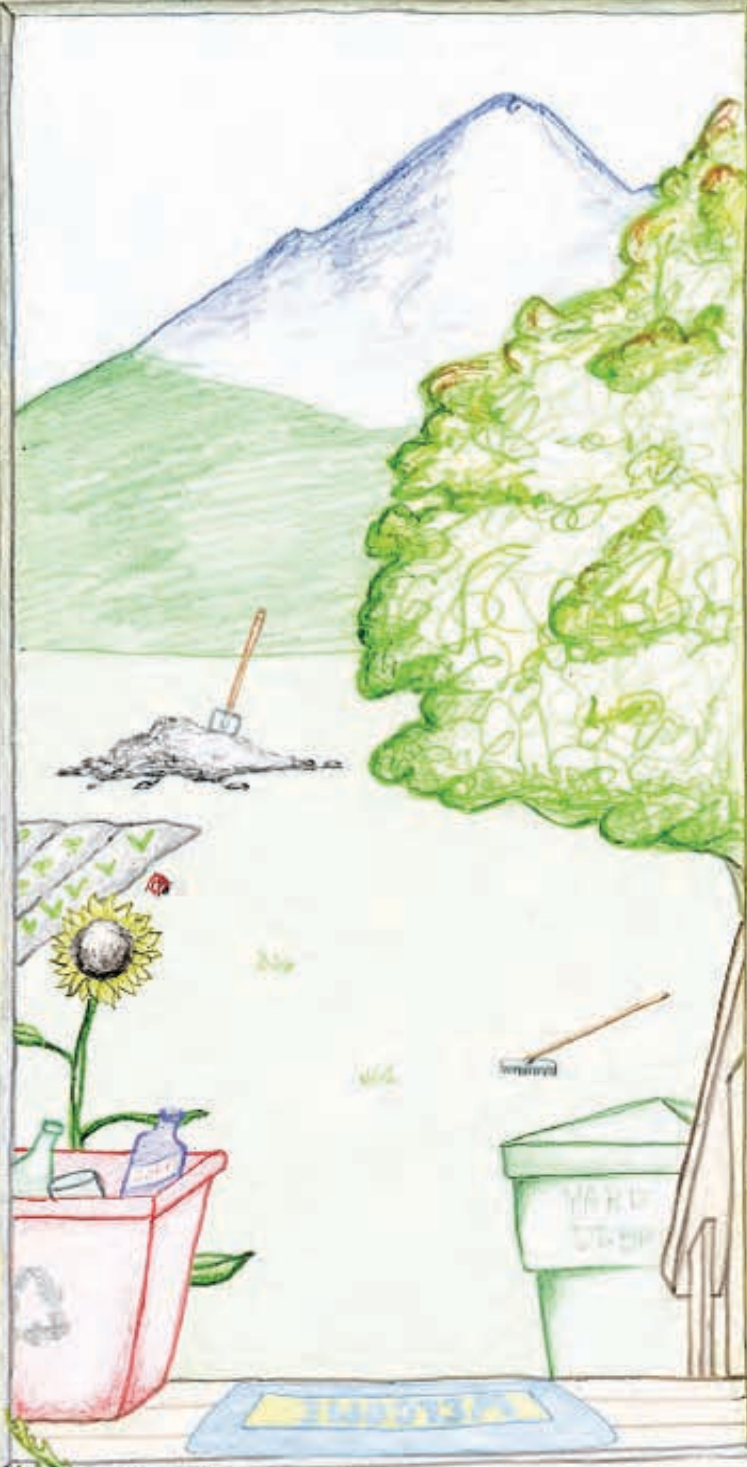
REUSE: Use it again and again...

but there are
More Than 3 R's...



Recover

- | | | |
|-------------|----------|-----------|
| Rot | Rethink | Reject |
| Repair | Renew | Resell |
| Reduce | Reuse | Recycle |
| React | Rejoice | Rebuild |
| Return | Recharge | Refuse |
| Repaint | Redeem | Repurpose |
| Refinish... | | |



What other Resource Conservation actions can you think of? List them here:

1. _____
2. _____
3. _____

Get it Out of the Trash!

Everything we put in our garbage was once a natural resource. Conserve resources by reducing, reusing and recycling.


Be a good sort!

Draw a line from each item in the container on the left to where it should go: donation box, recycling, composting or garbage.



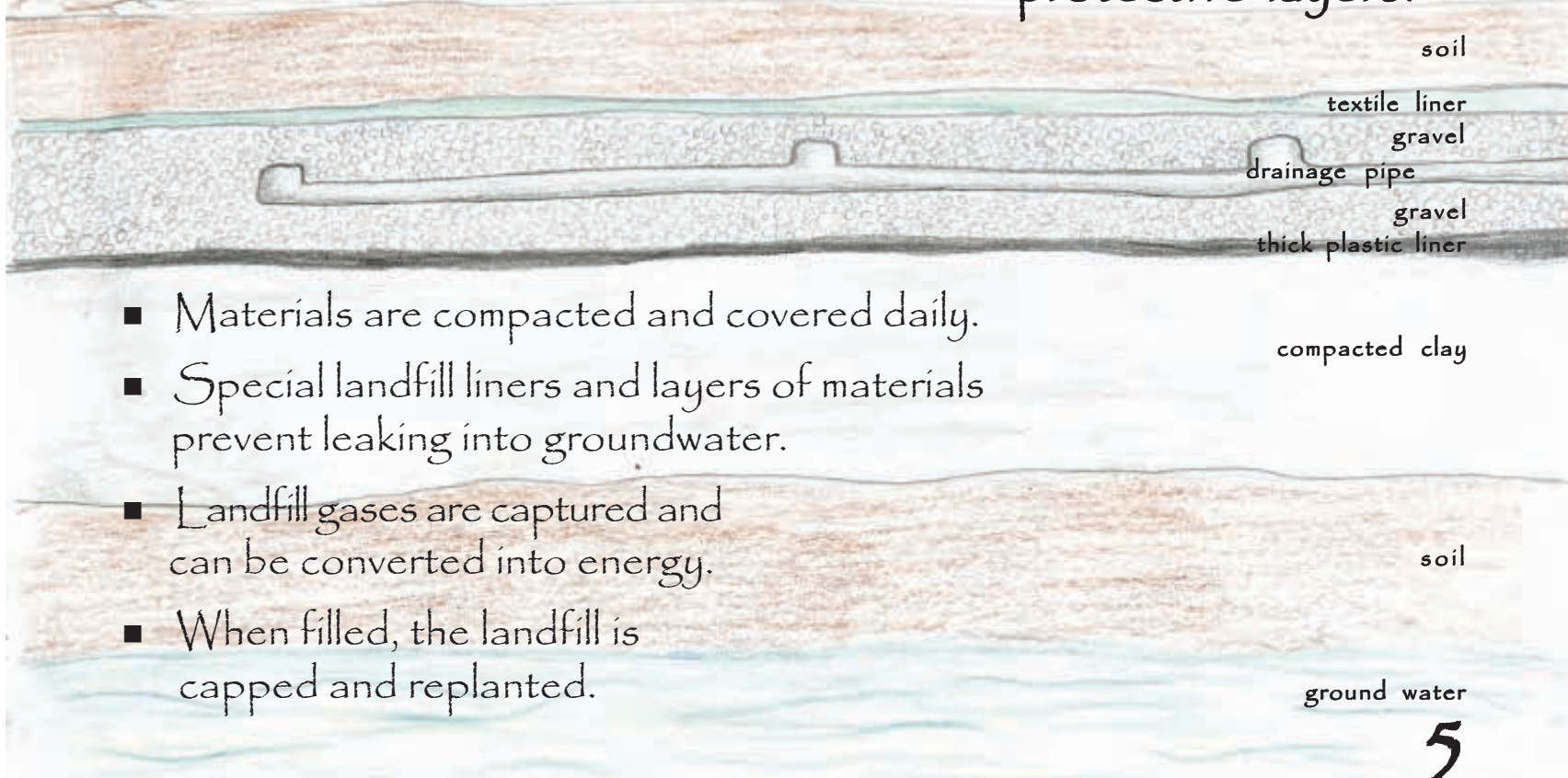
The Garbage We Make

When stuff still has value it does not belong in a landfill. It is important that we properly dispose of items when they are no longer useful in any shape or form.



Today, landfills are designed to handle tons of waste in ways that protect people, animals and the environment. Hazardous materials need to go to special landfills.

Landfills have many protective layers.



soil
textile liner
gravel
drainage pipe
gravel
thick plastic liner

- Materials are compacted and covered daily.
- Special landfill liners and layers of materials prevent leaking into groundwater.
- Landfill gases are captured and can be converted into energy.
- When filled, the landfill is capped and replanted.

compacted clay

soil

ground water

Compost ~ Nature's way of recycling.

START
HERE



You start a compost pile. Move ahead 3 spaces.

You put metallic foil in the compost. Go back to start.



Roll a 4 or a 6. If not, go back 1 space.

Try this game of luck and composting know how. Instructions on page 11

You've heard of the 3R's, but maybe not the fourth R, Rot. Allowing your organic material to rot makes compost. Much of the material filling landfills today is food scraps and yard waste.

When we let organic material decompose, we free up landfill space and are able to use the compost we make to help grow more food and flowers.



You compost your banana peel. Move ahead 2 spaces

You throw a candy wrapper in the compost. Go back to start.

You tell a friend about the benefits of composting. Move ahead 4 spaces.

You added yard waste to your compost pile. Move ahead 2 spaces.



AIR
+
WATER
+
GREENS
+
BROWNS
= COMPOST

You put a plastic spoon in the compost. Move back 4 spaces.

END
HERE
COMPOST!



You start a worm composting bin. Move ahead two spaces!

You throw your old shoes in the compost pile. Go back 6 spaces



Take a look at what is in the compost bin. Don't add meat, oils, dairy, plastics or metals. They either don't break down or give off odors that attract pests.



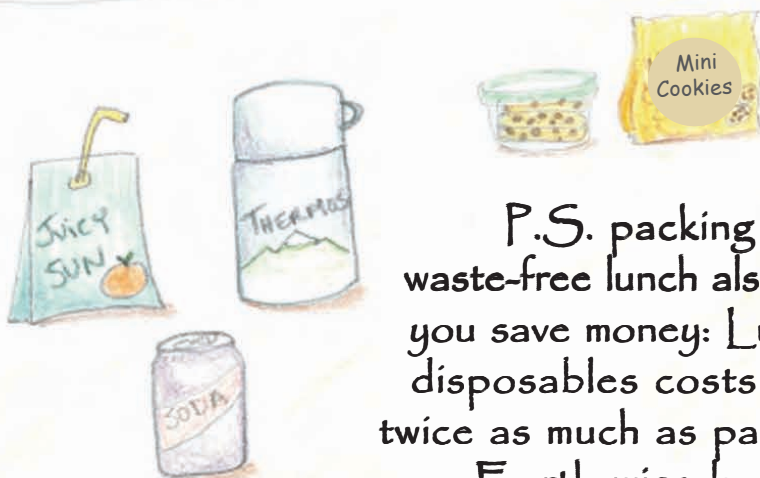
Waste-Free Lunch

Did you know that school lunches create about 67 pounds of trash per student per year? How many pounds of lunch waste per year does your school create? _____ X 67 = _____ !!!
 (# kids in your school) (Total lunch garbage)

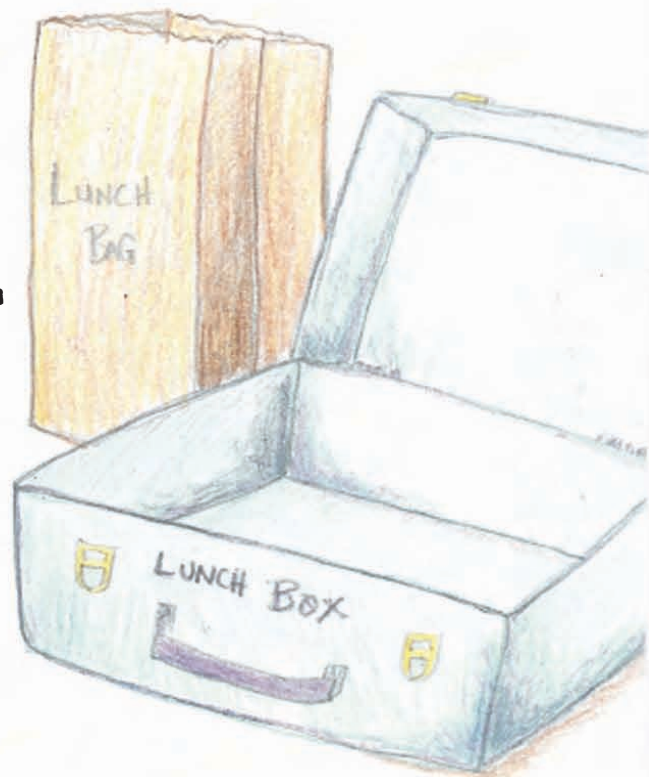
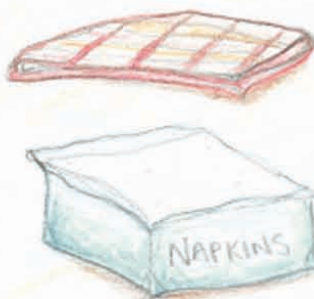
How or where our lunch food is made and packaged also has an effect on the environment. When packing your lunch, you can make choices that will help prevent waste, conserve natural resources and energy, and protect habitat.

Look at the pairs of items below. Circle the one from each pair that you would choose for a waste-free lunch.

Remember: everything in a waste-free lunch can be eaten, reused, recycled or composted.



P.S. packing a waste-free lunch also helps you save money: Lunch in disposables costs about twice as much as packing an Earth-wise lunch.



Which items can be recycled? _____, _____

Which are reusable? _____, _____, _____

Which can be composted? _____

WATER: A RESOURCE EVERYONE NEEDS

Tip #1: Install water-saving showerheads (save 500-800 gallons a month).



Tip #2: Turn off the faucet while you brush your teeth (save 3 gallons a day per person).



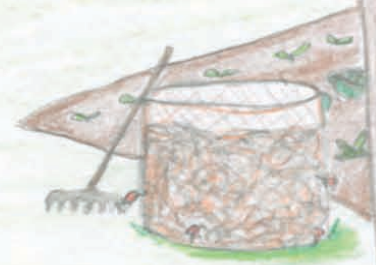
Tip #3: Run only full loads of laundry and dishes (save 300-800 gallons a month).



Tip #4: Wash the car on the lawn. Rinsewater will water the grass.



Tip #5: Use non-toxic cleaning products to prevent poisons from polluting water.



Tip #6: Use compost to protect water quality.

Follow the drop of water from the sewer to the stream.

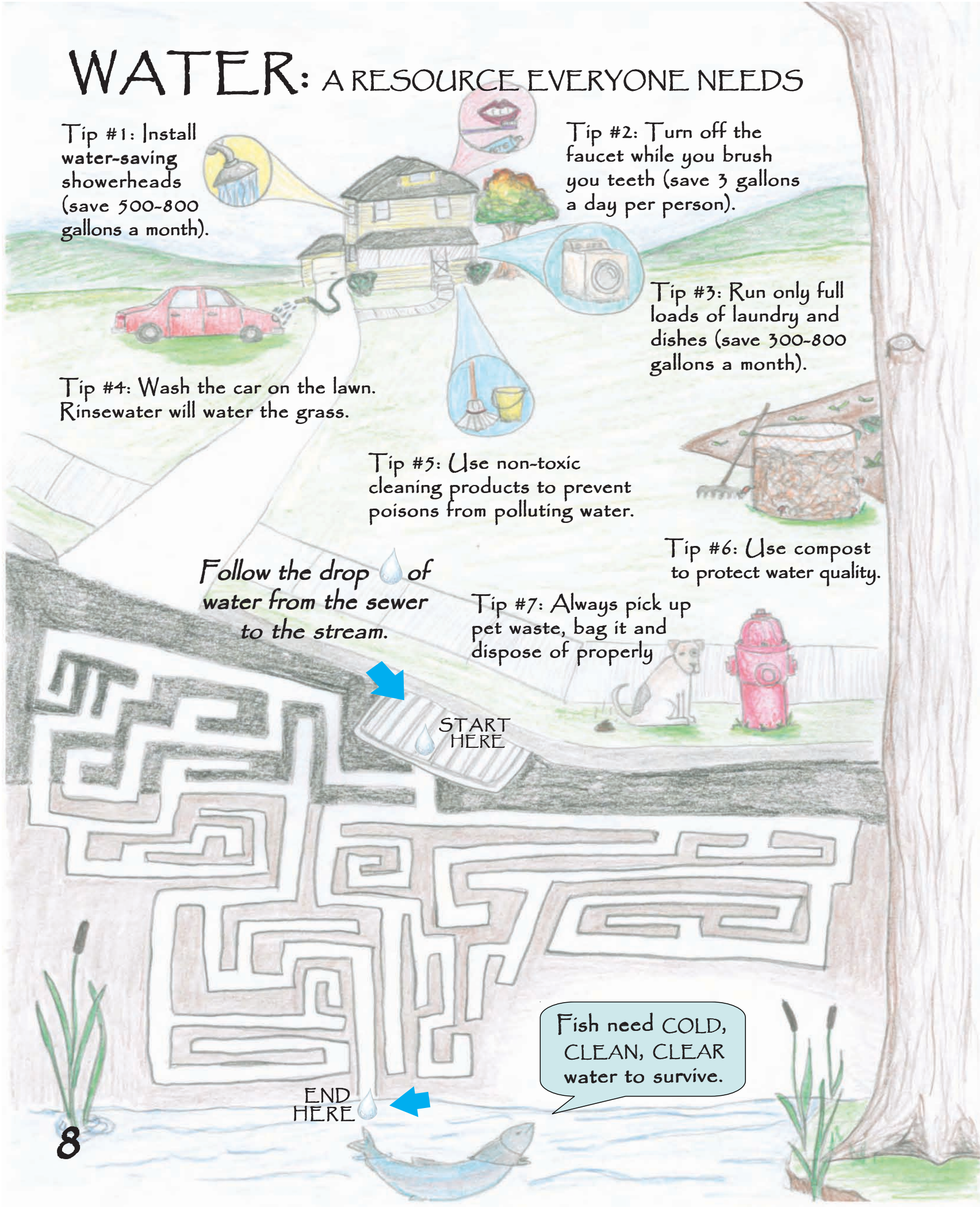
Tip #7: Always pick up pet waste, bag it and dispose of properly



START HERE

END HERE

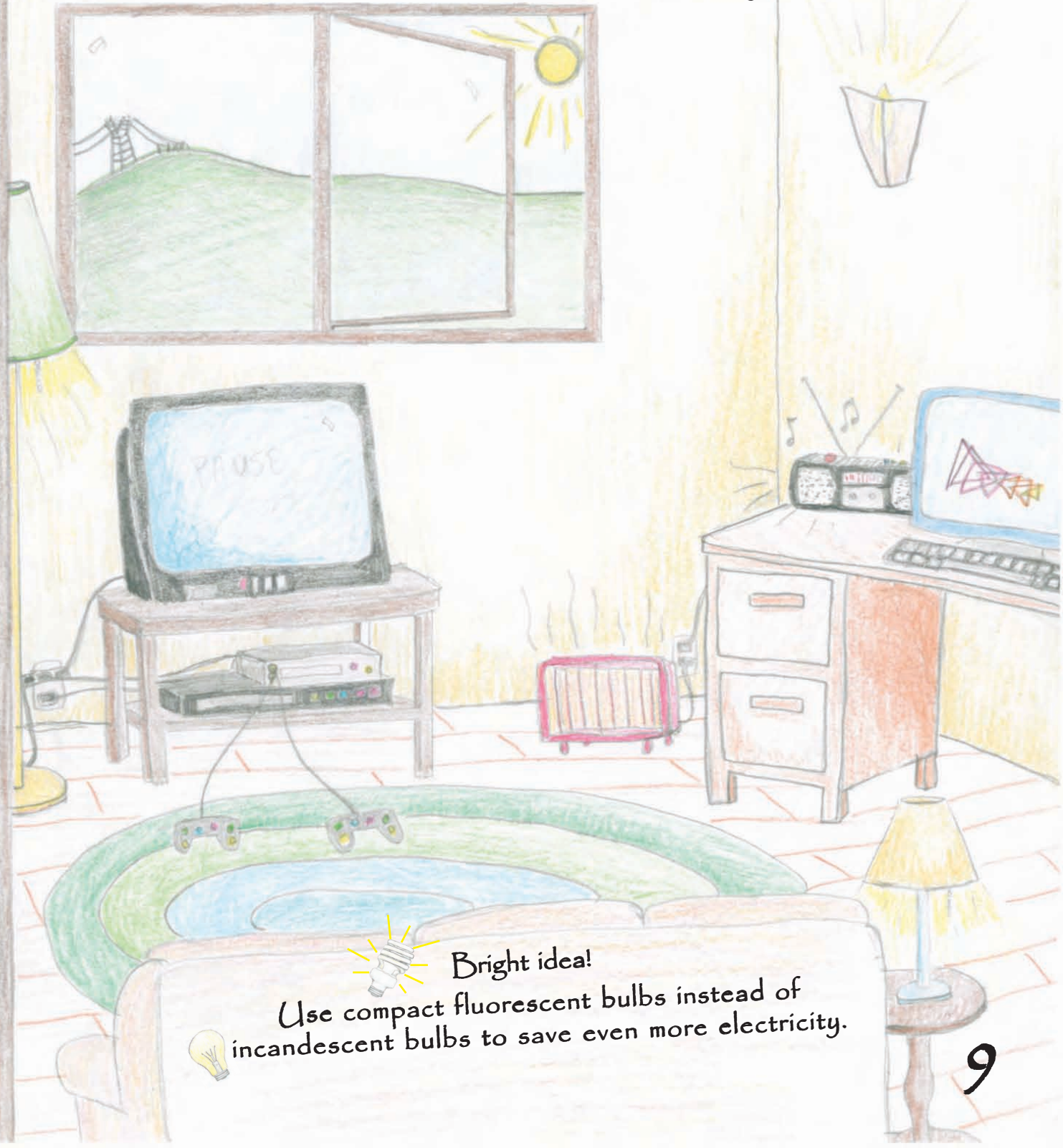
Fish need COLD, CLEAN, CLEAR water to survive.



ENERGY

When you conserve energy you save our limited stores of coal, natural gas and oil. This helps keep our air clean by reducing carbon dioxide and other greenhouse gas emissions.

Does this look like your house when no one is home?
Circle the items that are wasting electricity.



Bright idea!

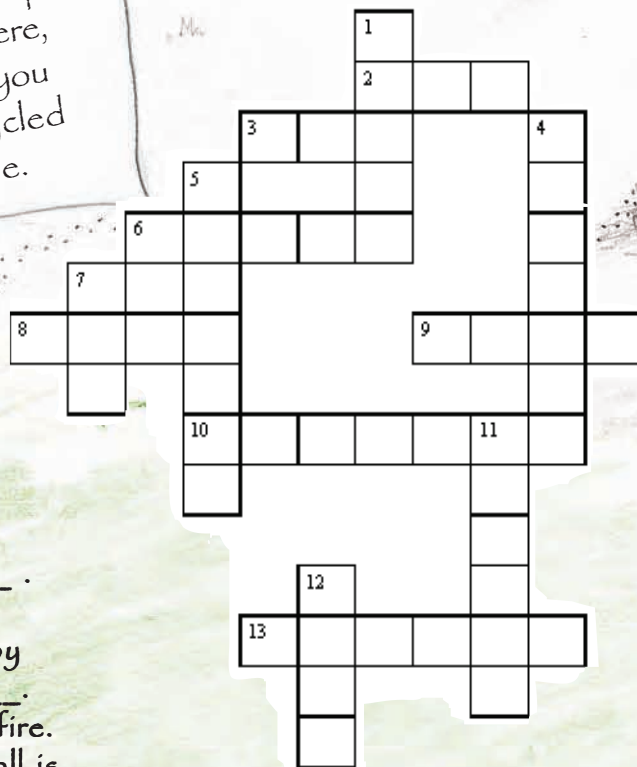
Use compact fluorescent bulbs instead of incandescent bulbs to save even more electricity.



Trees are Natural Resources

Did you know?

Paper is made out of fibers. This booklet is made from 72% post-consumer recycled paper fibers. This means the fibers were once part of different sheets of paper before being used here, maybe even paper you used and then recycled at school or home.



ACROSS

2. Trees help clean the _____.
3. Tree "blood"
6. Keep your home cooler by planting trees for _____.
8. Trees give us _____ for fire.
9. The center of the baseball is made from _____ which comes from trees grown in Portugal.
10. Trees planted on hillsides help to stop _____.
13. Some tires, erasers, gloves and balloons are made from the sap from _____ trees.

DOWN

1. Pancakes love this type of tree.
4. White willow trees give us this headache remedy.
5. People and many animals seek this from trees.
7. Go climb a tree and have _____!
11. Take a deep breath and enjoy this product of photosynthesis.
12. Squirrel food from trees.

Metals are natural resources found in rocks and minerals.

*It takes a lot to dig,
transport, and make metal from rocks and minerals.
Once we have made a metal, it is much easier and
Earth-friendly to just remelt (recycle) it.*



Everything we use comes from natural resources. Using less is best, then reusing and then recovering through recycling. Your waste reduction efforts save resources, energy, water and reduce pollution to air, water and soil. They help protect the habitats where plants, animals and people live. They create jobs and limit the amount we truck to and bury in landfills.

Let's dig a little deeper... Try this word search to find the metals listed below.

Mining Metals

Aluminum
Bauxite
Brass
Bronze

Copper
Nickel
Silver
Steel

Tin
Gold
Iron
Ore
Metal

A K R A O S E E L
S L E K C I N X O
E N U E R Z I U N
Z Q I M M E T A L
N E O L I C V B M
O L R U N N S E I
R S E T I X U A B
B A P H N O K M R
N E P A G M I N A
I R O N S O C B S
O T C R E V L I S
M A L E E T S D E



Sustainability

Sustainability is the practice of meeting our needs without compromising the ability of future generations to meet their needs. Think of the Earth as a piggy bank and natural resources as its contents. We can only withdraw so much from it before we run out of resources.

Sustainable resource use occurs when we consume or use natural resources at a rate that can continue without damaging the Earth's environment, its people or the economy. Conserving water, energy and materials are all sustainable behaviors.

To measure your own impact upon the Earth, your eco-footprint, take the quiz at: <http://www.kidsfootprint.org>.

Ten Simple Steps to Shrink Your Eco Footprint

Check off each box as you complete the action. Develop Green habits.

- Run the dishwasher only when it is full
- Use public transportation, bike or carpool.
- Turn off water while brushing teeth, working at the kitchen sink or washing your car.
- Decide what you want before you open the refrigerator door.
- Unplug chargers and turn off appliances, including computers, when not in use.
- Use low flow shower heads.
- Bring reusable bags when you shop.
- Use a travel mug or reusable bottle instead of disposable cups or water bottles.
- Spread the word to your family and friends.
- Reduce, Reuse, and Recycle at school and home!



What I Have Learned

Natural resources are things from nature that we use to make everyday stuff.

Everything that we throw away was once a natural resource.

It takes a lot of time, effort, and energy to make things from natural resources.

Earth's resources are limited.

The choices I make have an effect, good or bad, on our environment and climate.

5 Ways I Can Help

1.

2.

3.

4.

5.



Glossary



Compact fluorescent light bulbs: tubular light bulbs that use 75% less energy, create less heat and last up to 10 times longer than standard light bulbs.

Composting: a process in which organic materials, such as leaves, grass clippings and food waste, are broken down into a soil-like material.

Compost: soil-like material created from natural decomposition of organic material by bacteria, fungi and other organisms; a product used to condition or enhance soil.

Conservation: using resources (forests, rivers, fossil fuels, etc.) wisely to ensure a future supply by preventing loss, destruction or waste.

Conserve: to protect or use natural resources knowledgeably without wasting them or using them up completely.

Cycle: a repeated event or sequence of events.

Energy: the ability of an object or a system to do work or produce a change (energy is light and heat; makes things grow or move).

Garbage: Unwanted, unusable products; trash.

Greenhouse gases: gases in the earth's atmosphere that absorb infrared radiation. The two major heat-trapping gases are water vapor and carbon dioxide.

Hazardous material: Any material that poses a threat to human health and the environment because of its chemical makeup.

Incandescent light bulbs: standard light bulbs where a filament gives off light when heated by an electric current.

Landfill: A large, outdoor area specially designed for disposing of solid waste in or on the ground.

Natural resources: Naturally occurring things from the earth (water, rocks and minerals, plants, animals) which people use to make food, clothing, energy and other products.

Ore: rocks with metal or valuable substances in them that are mined and turned into products.

Post-consumer: materials that have already been used by a consumer and recycled into new products instead of going to the landfill.

Product lifecycle: the life history of a product, from its start as a natural resource to its disposal, including energy use and transportation.

Recycle: the process of collecting, sorting, and making used items into new products.

Reduce: to use less in any way, as in size, weight or amount.



Reuse: to use an object more than once in its same form for the same purpose or for different purposes.

Stormwater: water that flows from streets, business and residential properties into storm drains before returning to a stream or being treated at a sewage treatment plant.

Sustainable: able to meet our needs without permanently depleting or damaging natural resources.

Yard debris: waste materials from yards and gardens such as grass clippings, small branches, weeds and other plant trimmings.



Join the Oregon Green Schools Team!

Make a Difference. Take Pride. Get Noticed.

In schools across Oregon, students, teachers and staff are conserving resources and making a difference in their communities. Oregon Green Schools is helping with:

- Hands-on assistance
- Curriculum and funding resources
- Recognition



Saving resources, one school at a time.

Put your school on the map.

From Roseburg to Portland to Baker, more than 200 schools are on the Oregon Green Schools map with effective programs to recycle, reduce waste, save energy and conserve water. Our regional coordinators can help your school make its mark, too, whether your program is just beginning or already established.

Visit our website at www.oregongreenschools.org

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