

RALLY AROUND RECYCLING!

A RECYCLING PRIMER

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TEACHER INSTRUCTIONS
GRADES K-1



YOUR SCHOOL CAN PITCH IN!

Visit rally.repreve.com to register and participate in the **Repreve Recycle Rally Competition!** You'll receive banners and other cool stuff to hang in your school; plus, the top three winning elementary schools will win tickets to **Marvel Universe Live!** and an assortment of products made with Repreve.

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? SO...WHAT IS RECYCLING?

Recycling is the act of processing used or waste materials in order to make them suitable to be used again, or used in a completely new way.

☰ IT OFTEN BOILS DOWN TO THE THREE R'S:

Reduce: Shop smart—buy durable goods, avoid disposable products, and buy only what you need.

Reuse: Donate your old clothes and books. Save and reuse your plastic bags. Get creative!

Recycle: Be sure to dispose of all recyclable materials properly, in recycling bins. Contribute even more by purchasing recycled products when possible and writing letters on recycled paper. It's easy!

✓ WHY IS IT IMPORTANT TO RECYCLE?

It Saves Resources. By recycling, used materials are converted into new products, reducing the need to consume natural resources.

It Saves Energy. By recycling, greenhouse gas emissions are reduced, which helps to tackle climate change.

It Protects the Environment. By recycling, we take steps to protect our air, land, and water to safeguard human health and the environment.

It Reduces Waste Sent to Landfills. By recycling, recyclable materials are converted into new products and, as a result, the amount of waste sent to landfills is reduced.

👤 WHAT CAN I RECYCLE? WHAT CAN MY STUDENTS RECYCLE?

Good question! We have more chances to recycle now than ever.

METALS! Soda cans, empty food cans.

GLASS! Nowadays, there is at least 27 percent recycled glass in U.S.-produced bottles and jars.

PLASTICS! We're recycling more than 2 billion pounds of plastic yearly. Not bad, but let's do better: Plastic bottles, jugs, and takeout containers can all be recycled.

PAPER! More than 60 percent of the paper we use is recycled annually. Recycle those cardboard boxes you've got so that they can become cereal boxes, paper towels, writing paper, and more.

BATTERIES, BULBS! Recycling car batteries is as American as apple pie—they're the most recycled product in the United States. Make the switch to CFL bulbs, and check with your local authorities about how to properly recycle all of your batteries.

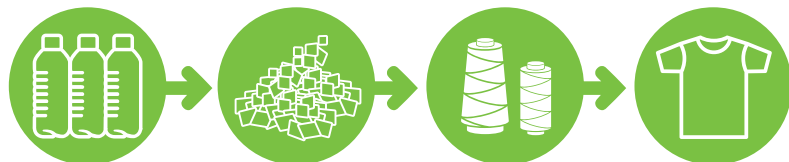
WHAT CAN RECYCLED MATERIALS BECOME?

Recycling allows waste to be transformed into something entirely new. For example:

Recycled notebook paper → Tissues, toilet paper, napkins

Plastic bottles → Clothing fabric, sleeping bag insulation, carpet

Metal cans → Automobile parts, steel beams for bridges, appliances



PLASTIC BOTTLES

FLAKES

FIBER

CLOTHES & OTHER
COOL STUFF

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BEAN STALK IN A BOTTLE

Use this program to have a Recycling Day and kick off the Repreve Recycle Rally Competition! During the week leading up to your Recycling Day, have your class collect two-liter plastic bottles (enough for one per student plus some extras).

ESSENTIAL QUESTION: How can plastic bottles be recycled into new and creative products to help the planet by reducing waste?

TIME: 45 minutes

WHAT YOU'LL NEED: two-liter plastic bottles (one per student); wildflower seeds; potting soil; scissors or X-Acto knife; rubber bands; one gallon of water; a large assortment of crayons; blow-dryer; piece of cloth; glue; poster board; Student Worksheet A

BEFORE CLASS BEGINS: Before presenting the lesson plan to your class, precut the materials. Cut along the circumference of each bottle (one per student) at the halfway mark. Remove caps and use a rubber band to cover the mouth of each bottle with a piece of cloth.

WHAT TO DO:

Part 1: Melted Crayon Art

Introduce the idea of *transformation* (the change of one form of something into another) to your class with this easy demonstration.

1. Glue a row of crayons to the top of a poster board with the tips of the crayons facing down.
2. Gently warm the crayons with a blow-dryer from one to three inches away. The wax will begin to melt and flow down the poster board.
3. Hand out the student worksheet and discuss the theme of transformation by comparing your demonstration to how recyclable products like bottles can be transformed into new materials. Talk about why it is important to reduce, reuse, and recycle. Create a list of reasons that recycling helps the environment (conserve natural resources and limit waste buildup).

Part 2: Bean Stalk in a Bottle

1. **Decorate the planter**—Have students glue crayons onto their precut bottles and recreate your demonstration to decorate them. (Safety first: Be sure to handle the blow-dryer yourself.)
2. **Add dirt and seeds**—Have students fill the top half of the bottle with potting soil and plant their seeds by sprinkling them on top.
3. **Add water and watch it grow**—Add two inches of water to the bottom half of the bottle and place the top (mouth side down) into it. Put the planters in a sunlit area and water daily.
4. **Discuss with your class how this activity transformed what could have been waste into something new.** Plastic bottles can be turned into lots of cool stuff. Use this segue to introduce the **Repreve Recycle Rally** and get your students excited about collecting bottles!

EXTENDED LEARNING IDEAS:

- Include a reading assignment as homework! Read the story of *Jack and the Beanstalk* by Steven Kellogg and discuss how the tiny bean transformed into a secret kingdom.
- Pass around a four-pound bag or weight to show the average amount of garbage produced by the average person each day



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Name: _____

HOW DO WE RECYCLE?

When we recycle, we transform old things into new things.



PLASTIC BOTTLES



FLAKES

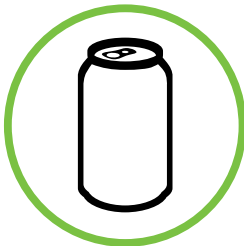
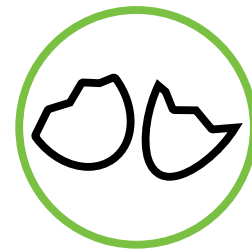
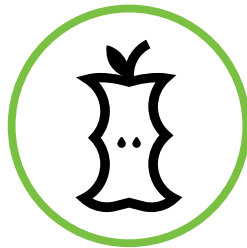


FIBER



CLOTHES & OTHER
COOL STUFF

HOW DO YOU RECYCLE? Help sort the garbage below into the right bin!
Draw arrows from each piece of waste to the bin where it belongs.



Our class is participating in the Repreve Recycle Rally Competition.

Bring your family's recyclable plastic bottles to school between _____ and _____ and help us win prizes!