

BECOME A WASTE HERO

REDUCE TO ZERO




**What Can You Make
From Recycling?**
Level 2 Advanced Lesson



Lesson Prep & Curriculum Alignment

Prep time: 10 – 15 minutes

Students will deepen their understanding of how recycling benefits the environment by identifying new products from recycled materials. They will engage in a group activity using collaboration, critical thinking, and verbal presentation skills to learn what recyclable materials can be turned into. They will receive a handout to share what they have learned with their family and encourage recycling at home.

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- 1 Display the lesson slides for the class to guide the instructions.
 - 2 Print deck of cards for student groups, one set per group is fine.
 - 3 Print the YES/NO take home handout to share with their family, and the “Waste Hero Stickers” of achievement.

Lesson Prep & Curriculum Alignment

Prep time: 10 – 15 minutes

Key Learning Outcomes and Curriculum Alignment:

- **Science - Earth and Human Activity:** Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. Things that people do can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things.
- **English Language Arts and Literacy:** Engage effectively in collaborative conversations (one-on-one, in groups, and teacher-led) with diverse partners, building on others' ideas and expressing their own clearly. Follow agreed-upon rules for discussions.
- **Social Studies: People, Places, and Environments** The study of people, places, and environments enables us to understand the relationship between human populations and the physical world.

SDG Alignment



Flexible and adaptive lesson

Lesson plans are designed to be flexible and responsive to the evolving needs of your classroom. Lessons are editable and customizable to meet the different individual student and classroom contexts. A PowerPoint version with teacher instructions and a printable PDF lesson are available for download.

The Lesson

Lesson duration: 25 - 30 minutes

1

Introduce the lesson to your students by asking about their knowledge of recycling and if anyone recycles at home.

- Display the “YES/NO” slide or print the handout.
- Create an open discussion about the basics of recycling.
- What exactly is recycling?
- What can be recycled?
- What can't be recycled?

2

Go through the “Why recycling helps the environment” slides and create a discussion about recycling benefits to the environment by allowing us to produce numerous items from recycled materials. Recycling saves energy, conserves resources, and reduces pollution. Explain to students that recycled items can be turned into many different products and takes less energy and creates less pollution than manufacturing those products.

- What are some examples of items that can be recycled?
- What happens to those items when they are recycled?
- Are they reused or do they get turned into other things?
- What are some products that can be made using recyclable material?

The Lesson

Lesson duration: 25 - 30 minutes

- 3** Divide students into groups and give each group a deck of cards with pictures of recyclable/non recyclable items and pictures of products that can be made from recyclables. Tell students they will work as a team to match each product card with a recyclable card showing what it could be turned into through recycling.
- 4** Lead a discussion of the activity and help students with the correct pairings. If there are any pairings that students do not understand, explain the connection between the recyclables and their product.
- 5** Tell students to get a piece of paper and write down a recyclable material (PET plastic bottle) and have them draw a product they want to make from the recyclable item. Have them share with the class. Design the layout like the slides presented.

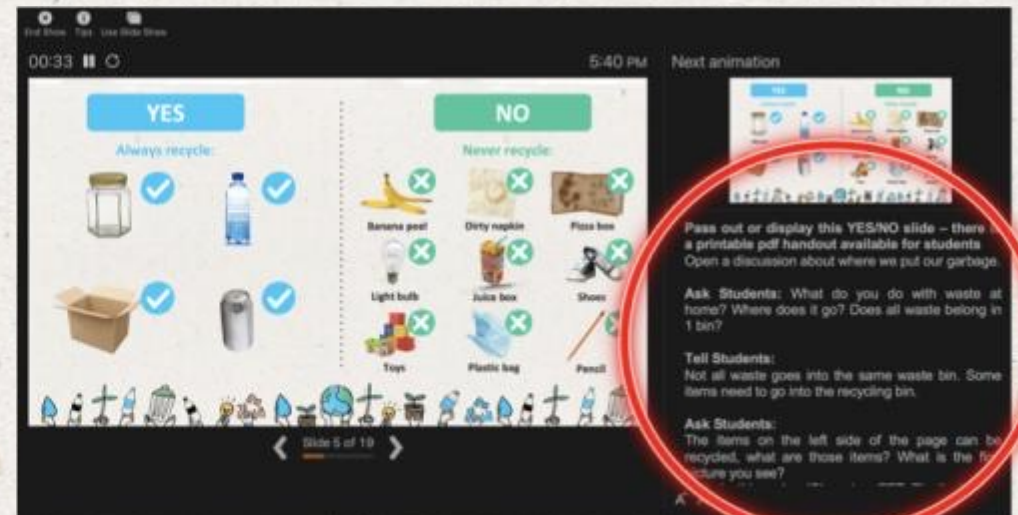


Prepare the PowerPoint presentation

When you are ready to present the lessons to your class click on **Slide Show** on the top menu bar then select **Presenter View**. In Presenter view, you can see your notes as you present while the audience see only your slides.



The notes appear in a pane on the right. The text should wrap automatically, and a vertical scroll bar appears if necessary. You can also change the size of the text in the Notes pane by using the two buttons at the lower left corner of the Notes pane.





Glass jar



PET Plastic bottle



Shoes



Metal can



Light bulb



Juice box



Dirty napkin



Pencil



Plastic bag



Toys



Cardboard box



Garden hose



Banana peel

YES

NO



YES

Always recycle:



Glass jar



PET Plastic bottle



Cardboard box



Metal can

NO

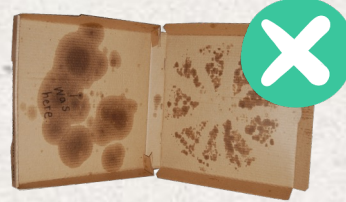
Never recycle:



Banana peel



Dirty napkin



Pizza box



Light bulb



Juice box



Shoes



Toys



Plastic bag



Pencil



The

3

Steps to
Recycling



Step 1 Know what you can recycle.



Glass jar



PET Plastic bottle



Cardboard box



Metal can



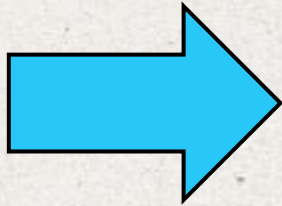
Step 2 Empty, clean, and dry before putting in the bin.



Step 3 Put recyclables into the correct recycling bin.



When we clean, dry, and recycle we can make new things.

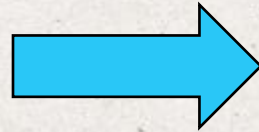


How does recycling
help the environment?



Why recycling helps the environment?

10 PET Plastic bottles



Saves Energy

Did you know if you recycle ten PET plastic bottles, you can save enough energy to power your laptop for an entire day.



Why recycling helps the environment?



We use less natural resources.

Recycling conserves natural resources, such as wood, water, minerals, and fossil fuels, **because materials can be reused.**



Why recycling helps the environment?

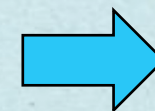
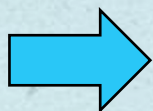
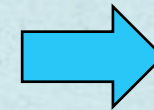
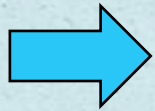


Reduces pollution and protects animals.





Many recyclables can be remade into new products.
What products can be remade from recyclables into something new?



Metal Cans

Metal cans can be recycled into cans, bike parts, appliances, and lamps.



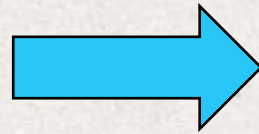
Cardboard

Cardboard can be recycled into boxes, paper cups, shoe boxes and printer paper.



PET Plastic bottle

PET Plastic bottles can be recycled into more PET bottles and textiles



Glass

Glass can be recycled into glass milk bottles, new windows, and even mixed concrete.



Next Steps

1

Divide students into groups and give each group a deck of cards with pictures of recyclable/non-recyclable items and pictures of products that can be made from recyclables. Tell students they will work as a team to match each product card with a recyclable card showing what it could be turned into through recycling.



3

At the end of the week let the students know they are officially a certified “Waste Heros” now and can teach their family how to recycle at home.

2

Tell students to get a piece of paper and write down a recyclable material (PET plastic bottle) and have them draw a product they want to make from the recyclable item. Have them share with the class. Design the layout like the slides presented.

