

PLASTIC

Changemakers

REDUCE, REUSE, RECYCLE
MODULE 2



MODULE FACILITATOR: Adrien



Module Objectives







Students will be able to:

- Identify hidden plastics in everyday items and estimate the number of years that they take to decompose
- Explain and distinguish between the 3Rs: Reduce, Reuse, Recycle and then sort items by material
- Identify better alternatives in their lives to reduce, reuse and recycle everyday items
- Create a house pledge (set of guidelines to follow)

Module 2: Vocabulary

Landfill		Residual		Decompose	
<p>A place where rubbish is put and buried between layers of earth.</p> <p><i>EG: There are 8 million disposable nappies thrown into landfill every day.</i></p>		<p>Something that is left over once the main part has gone.</p> <p><i>EG: Once I have sorted the recycling, the residual waste goes in the general waste bin.</i></p>	 	<p>When an object breaks down into smaller pieces by rotting or decaying.</p> <p><i>EG: Bacteria will help my food waste decompose which will help other life grow</i></p>	
Biodegradable		Break Down		Compostable	
<p>Objects that have the ability to break down naturally.</p> <p><i>EG: An apple core is biodegradable, leaving no pieces behind after some time</i></p>		<p>Something that stops working or breaks into smaller parts</p> <p><i>EG: The computer was broken down into plastic parts and metal parts so it could be recycled.</i></p>		<p>Objects that break down completely and will not harm the environment</p> <p><i>EG: Egg shells are compostable so I put them in the compost bin instead of the rubbish</i></p>	

Module 2: Vocabulary

Landfill		Decompose		Microplastics	
<p>A place where rubbish is left, usually buried between layers of earth.</p> <p><i>EG: Plastic bottles, which could be recycled, often end up in landfill.</i></p>		<p>To rot, decay or break into smaller parts.</p> <p><i>EG: Food can be put in a compost bin because it will decompose.</i></p>		<p>Extremely small pieces of plastic that end up in the environment.</p> <p><i>EG: When you use your washing machine, microplastics come off of your clothing.</i></p>	
Reduce		Reuse		Recycle	
<p>Use less of or make less of something.</p> <p><i>EG: I reduced my plastic waste by buying loose vegetables.</i></p>	 <p>REDUCE</p>	<p>Use something again, more than once, for its original purpose or a new purpose.</p> <p><i>EG: When my t-shirt got a hole in it, I turned it into a cushion.</i></p>	 <p>REUSE</p>	<p>To break something down into its original material, to recreate it into something new.</p> <p><i>EG: I bought a pen that was made from recycled water bottles.</i></p>	 <p>RECYCLE</p>



Remember

What did we cover in our last session?



necessary | convenient | unnecessary | single use | synthetic | overuse | overproduction | disposal



**If you put your rubbish in the bin,
where does it go next?**

What can you see? How do you think it got here? Where do you think it is?



Understand



What can you see? Should these items be in landfill?
How do you think he is feeling?



Understand



LESSON 1



Sort, predict and order



Complete

Cut out the cards.

Match up the object, picture and how long you predict it takes to decompose.

Can you put them in order, from shortest to longest?

LO: I can identify and sort different materials by predicting the number of years they take to decompose and recognising that there are hidden plastics in everyday items

Module 2: Matching Game - Activity Sheet

Cut out the cards and sort the names, images and time taken to decompose.

Vegetables		50-100 years to decompose
Orange peel		500 years to forever to decompose
Cotton t-shirt		1 million years to decompose
Tin can		6 months to decompose
Plastic bag		5 days - 1 month to decompose
Glass bottle		6 months to decompose

LO: I can identify and sort different materials by predicting the number of years they take to decompose and recognise that there are hidden plastics in everyday items.

Sort, predict and order



Complete

Did you get them in the right order?

Did anything surprise you?

Can you think about where other items might fit in this scale?



Module 2: Matching Game - Activity Sheet

Cut out the cards and sort the names, images and time taken to decompose.

Vegetables		50-100 years to decompose
Orange peel		500 years to forever to decompose
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LO: I can identify and sort different materials by predicting the number of years they take to decompose and recognise that there are hidden plastics in everyday items.

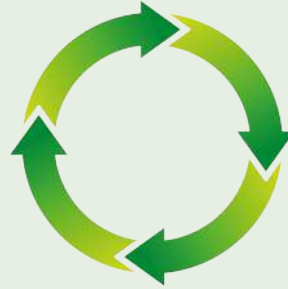


Complete

How can we help the situation?



REDUCE



REUSE



RECYCLE



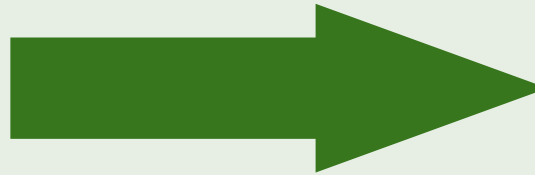
How are each of these different?

Do you already do any of these?



REDUCE

Cut down on the amount of plastic you use by choosing alternatives that have less plastic or are made from alternative materials.





REUSE

Use something more than once





Complete

Ways to reduce, reuse and recycle

Think of ways that you can reduce, reuse and recycle items both at school and at home.




Write at least one idea in each section.

Module 2: LO: I can discuss my understanding of the 3Rs: Reduce, Reuse, Recycle and explain the meaning of these words in context.

Name: _____

Date: _____

Module 2: Reduce, Reuse, Recycle Worksheet

Reduce	Reuse	Recycle
<p>Use less of or make less of something.</p>  <p>EG: I reduced my plastic waste by buying loose vegetables.</p>	<p>Use something again, more than once, for its original purpose or a new purpose.</p>  <p>EG: When my t-shirt got a hole in it, I turned it into a cushion.</p>	<p>To break something down into its original material, to recreate it into something new.</p>  <p>EG: I bought a pen that was made from recycled water bottles.</p>
		<p>Make sure any sheets that aren't stuck into my book go into the recycling bin.</p>
	<p>Cut the top off a plastic water bottle and use it to collect rainwater to water the plants.</p>	

LO: I can identify and sort different materials by predicting the number of years they take to decompose and recognise that there are hidden plastics in everyday items.

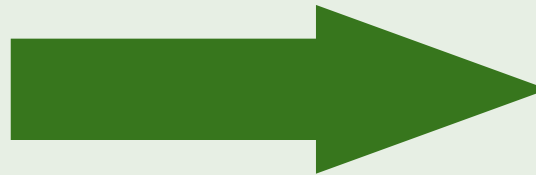


LESSON 2



RECYCLE

Break down a plastic item back to plastic
to recreate it into something new



Credit: Donald Trung Quoc Don

GLASS



ORGANIC



PAPER



METAL



E-WASTE



PLASTIC



BATTERIES





Complete

What can and can't be recycled?



PLASTIC FILMS

YES PLEASE

- All plastic bags, except biodegradable or compostable bags
- Shrink wrap e.g. from multi-packs of water, cans etc.
- Breakfast cereal liners.
- Bread bags.
- Bags for vegetables & fruit.
- Magazine wrappers.
- Toilet roll wrappers.
- Dry cleaning bags/bags covering new clothing.

NO THANKS

- Any dirty bags/film for example containing food
- Pre-prepared salad bags e.g. mixed leaf salads
- Wrappers from bakeries (e.g. plastic bags with lots of small holes in them)
- Cling film. This is often made of a type of plastic that cannot be recycled and is heavily food contaminated
- Film lids from plastic trays and pots e.g.

Find out more: <https://www.unisanuk.com/what-can-and-cant-be-recycled-recycling-guide/>

How might you reduce, reuse or recycle any of these items?



Unwanted clothing



Plastic cutlery



Plastic water bottle



Food waste



Coffee cup



Plastic straws



Food packaging

Be a changemaker

Add in your own definitions of reduce, reuse and recycle.

Then make your pledge.
What behaviour will you change to make a difference?

Can you encourage your family and friends to make their own pledges?

How much of a difference can you make?

My Changemaker Pledge



Reduce
 Use less of something _____

Reuse
 Use something again _____

Recycle
 Make it in to something new _____

I, Adrien, pledge to reduce at school

(name) (reduce/reuse/recycle) (home/school)

by Only using glue around the edge of my sheets and not using too much.

This will help to reduce the amount of glue I use and will also reduce the need

to buy new glue sticks.

Can you encourage your family to make their own pledges too?



Create



Would anyone like to share their pledge?



When can you start to take action on it?



Pair and share

Discuss the following questions:

Why is it important to follow the 3Rs?

If everyone followed the 3Rs, how would this improve the environment?

Why do you think people don't follow the 3Rs?



Part of

PLASTIC

Changemakers

A partnership between:



ZAG

ZAG
HEROEZ

Mediawan
KIDS & FAMILY

METHOD
Mediawan