Primary School Learning Activities

Standard Three

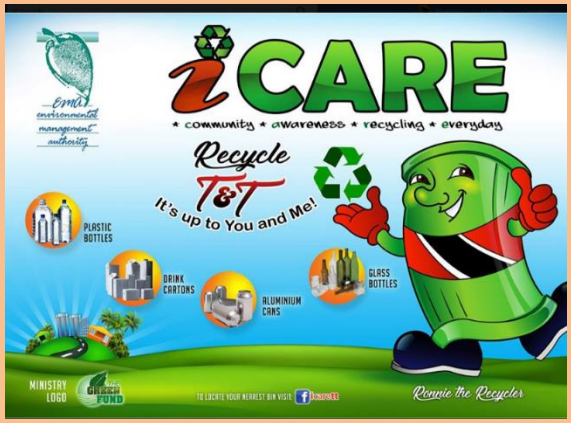
FOCUS: MODEL CAR MAKING

Content	Activities	Tools and materials needed
1.1.1 Recognise that a combination of materials can be used to create 3-dimensional objects	Understand and value the term **reusing** Construct a model of a car by sticking or gluing various sculptural materials including water bottles, straws, string, etc. together	Water bottle (500ml or 650ml) Bottle caps Paint- acrylic or poster Paint brushes Scissors Drinking straws, pencils, wire etc Glue String

Activities:

- What is reusing?
  Reusing means taking objects or materials that was about to be thrown away and then use it again in its original form.

  You would have seen recycling plastic bottles bins with Ronnie the Recycler® either in your school or community. These bins help us to recycle or reuse plastic bottles, and this helps us save our environment and our beautiful country!



- For this activity you are going to reuse a plastic water bottle to make a model car! Let's begin.

Step 1- Clean the bottle.

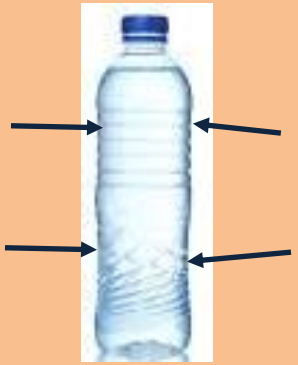
Get a bowl big enough for the bottle to fit in.
Ask an adult to mix some warm water. Add the warm water to the bowl with a a teaspoon of dish washing liquid. Mix!
Remove the label from the bottle and place it in the warm soapy water. Let it soak for 10 minutes.
This will help remove any bacteria
the remaining glue from the label and



Step 2- Making holes in the bottle

An adult will HAVE to do this for your safety!

Drill 2 holes into each side of the bottle, 4 holes in total. Place the holes on the bottle at these positions.
The holes should be parallel to each other.
These holes are for the axles of the car.



What is an axle? – A bar on which wheels turn.
Axles are needed to help the wheels move on any vehicle!



Pencil cut longer than the width of the bottle

Step 3- Finding the axle bar

You can use straws, old pencils, bamboo skewers or wire.
After finding the material for the axle, cut two pieces.
Make sure the two pieces are a little longer than the width of the bottle.
You might want to cut the material to remove unwanted parts. Please ask an adult to assist with this.

Step 4- Bottle caps

Gather 4 bottle caps for your wheels.



Step 5 – Painting the car parts

Paint the plastic bottle – the car's body- in your favourite colour!
Paint the bottle caps – the wheels.
You can customize your wheels (rims etc)
You can also paint the axle.
You should use either your poster or acrylic paint.
Or you can use any paint available at home. Get assistance from an adult!

Step 6- Axle

Place the 2 axle bars into the car's body.

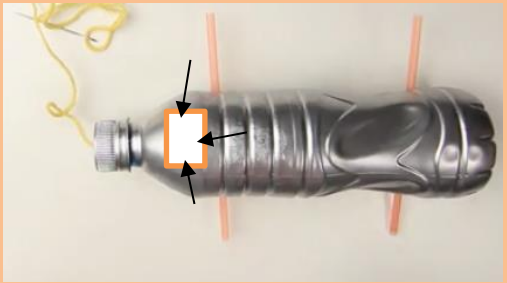


Step 7-More holes!



This is a car that moves by pulling it with a string.
Remove the bottle cap from the bottle and make a hole in the middle of the cap.
Get a piece of string and thread it through the bottle cap.
Make a knot in the side of the string that is inside the bottle caps.
Replace the cover with the string on the bottle.

Step 8- Make a windshield



Draw a shape at the top of the bottle.
Using a scissors and with an adult assisting, cut 3 sides of the shape (look at arrows) so that it can flip up.



Step 9 – Even more holes!

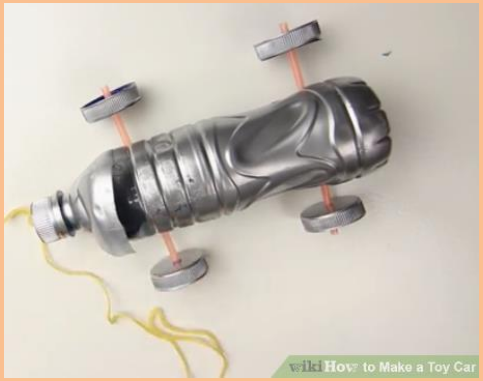
Make a hole in the centre of each ‘wheel’.



Step 10 – Assembling the wheels on the axles

Place the wheels onto the axle of the car

Let the top of the bottle cap face the bottle to make it strong and stable.



Use the string and pull your car!





Credit:

Model car making tutorial: https://www.wikihow.com/Make-a-Toy-Car