

GGA Knowledge Organiser Year 1 STEM– Measuring the Weather

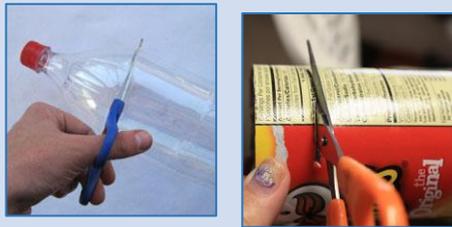
Making - Learning using Tools and Equipment

FPT – Focussed Practical Task

Practise cutting and shaping safely and carefully with your teacher.

Cutting your shapes

Your teachers will help you to cut and shape the tubes and bottles for your weather measuring designs.



Finishing your design

You will put the centimetres on with help from your teacher using a ruler.
You will glue the paper strips onto the bottom of your tube with help from your teacher.



Research, Designing & Planning

Use your Design and Technology book to plan with your teachers

Design Specification

What does your design need to do?

Planning

Talk about your ideas

Design Development

Draw your design ideas

Making and adapting

With some help you can start to make your design idea.

Evaluating

How did it go? Did it work? What went well? What could have been done better?

Cross Curricular Opportunities

Maths

Adding the measures in centimetres on the plastic bottle

English

Describing what we are doing or have done

Art

Decorate your ideas with bright colours and shapes

Science

Investigating the weather and measuring rainfall and wind direction

Vocabulary

Cutting

Using scissors to split and separate materials into pieces

Join and Assemble

To put things together

Shaping

To make your design into the shape you need

Construct

Put things together

Mock-up

Make a practise version of the design

Finishing

Make your design complete and add the final details

Why are we learning this?

To know how to: shape and upcycle materials

Why is it important?

So that we understand how to: turn our materials into our weather measuring station designs



GGA Knowledge Organiser Year 1 STEM– Upcycling Packaging

Making - Learning using Tools and Equipment

FPT Focused Practical Task

Practise cutting and shaping safely and carefully with your teacher.

Cardboard Tubes

These cylinder shapes can be cut to make flaps. These can be glued to stick to another surface.



Cutting & Shaping

Use scissors carefully and safely. Draw the shape first so that you have a pattern to follow.



Reinforce

Make a model stronger by gluing lots of layers/pieces together



Assembling

When all of your separate parts are made you can put them together.



Finishing

Add paint and decoration to make it look more like the thing you are making such as a building or animal.



Research, Designing & Planning

Use your Design and Technology book to plan with your teachers

Design Specification

What does your design need to do?

Planning

Talk about your ideas

Design Development

Draw your design ideas

Making and adapting

With some help you can start to make your design idea.

Evaluating

How did it go? Did it work? What went well? What could have been done better?

Cross Curricular Opportunities

English

Describing what we are doing or have done

Art

Decorate your ideas with bright colours and shapes

Vocabulary

Upcycle

Make something old into a new product

Join

Attach two materials together

Cut

Use scissors to make a new shape from card or paper

Reinforce

Make materials stronger, glue two sheets together to make them harder to tear or break

Finishing

Make your design complete and add the final details

Join and Assemble

To put things together

Why are we learning this?

To know how to: use old card and paper packaging to make an upcycled project



Why is it important?

So that we understand how to: make a model of a historical building for our topic

