



**Friends of
the Earth**

Lesson plan - Waste & recycling

Curriculum links

Art & Design	Key Stage 1	Unit 1B:	Investigating materials
Citizenship	Key Stage 1&2	Unit 01:	Developing skills of communications & participation
Science	Key Stage 1&2	Unit 2D:	Grouping and changing materials
Science	Key Stage 2	Unit 3C:	Characteristics of materials
Geography	Key Stage 2	Unit 8:	Improving the environment

Prior learning

An understanding of how raw materials are made into objects.

Learning objectives

- To identify a range of common materials and recognise that the same material is used to make different objects.
- Collecting raw materials can damage the environment.
- By re-using or recycling objects we can reduce the amount of waste we produce and reduce the demand for raw materials.

Lesson structure

Introduction

- Ask the class how much they know about materials and what they are made of.
- Get children to create a list of different types of material, e.g. paper, wood, metal, and plastic.

Activity

- Ask children to find 5 objects from around the classroom.
- Instruct them to sort objects into piles based on what material they are made from.
- Children to record their findings in a table, e.g.

Paper	Cardboard	Wood	Rubber	Metal
Piece of paper	Cereal box	Ruler	Eraser	Paper clip

Ask the children to join up in pairs and repeat the exercise with their 10 objects, each recording the new objects in their table.

In pairs children then rearrange their 10 objects into the raw material they are made of and record results in a new table, e.g.

Trees	Metal
Piece of paper	Paper clip
Cereal box	
Ruler	

In pairs children then reorder items into recyclable and non recyclable, e.g.

Recyclable	Non-recyclable
Piece of paper	Calculator
Cereal box	Toys
Paper clip	Eraser

Ask class to come up with alternative uses for the objects which can't be recycled (use the help stop waste and solutions to rubbish sections from our *Mad about waste and recycling* leaflet).

Extension activity

Look around the classroom for recycled items and discuss what they were recycled from.

Plenary

- Share ideas for alternative uses of the non-recyclable objects.
- Discuss what is already being recycled at school (include items that are re-used).
- Explore the consequences to the environment of collecting raw materials, and what happens to our waste if we don't re-use or recycle it.

Follow up session

Recycle your own paper http://www.recyclezone.org.uk/az_makepaper.aspx

Resources

Mad about waste and recycling leaflet

Paper

Pens

Objects from class

Key words/vocabulary

Materials

Waste

Recycling

Raw materials

Incinerators

Environment

Success criteria

Children will have categorised different types of materials and identified the raw material they came from.

