

# Lesson Plan

## *Lesson 2: What happens to my recycling?*

**Year Group: 3-6**

### **National Curriculum links:**

Science

- 1) Compare and group materials based on properties (e.g., metals, plastics, cardboard).
- 2) Understand that some materials can be recycled and reused.
- 3) Observe how materials change state when heated or cooled

Design and Technology

- 1) Understand how materials can be processed and reused to make new products.

### **Summary:**

In this lesson, pupils will learn about how materials are sorted at a recycling facility and then how they are recycled to make new products. They will explore methods like using magnets to separate metals and discover what happens to metals, cardboard, and plastics during the recycling process.

### **Prior knowledge required:**

- Rubbish needs to be collected and sorted.
- Different materials exist (metal, plastic, cardboard, glass).
- Some materials can be recycled and used again.
- Magnets can attract some metals.
- Recycling helps reduce waste and protect the environment.

### **Learning objective: To understand and explain how some materials are recycled**

- I can explain why recycling is important.
- I know how materials are sorted at the material recovery facility.
- I can explain how plastic, paper and metal are recycled.

**Prepare before the lesson:**

Mini whiteboards and whiteboard pens.

Resources for optional extension activities (see PPT).

**Lesson outline**

This lesson has been broken down into two parts. Please note, this lesson is longer than usual so it has been broken into two parts.

**Part 1****Slide 5: Vocabulary**

Explicitly teach children the vocabulary words using the definitions in the PPT notes.

**Slide 6-7: Vocabulary task**

Give 2 minutes for children to match the pictures to the numbers. See PPT notes for answers.

**Slide 9-13: What goes in the recycling bin?**

Follow the slides to teach children what items we put into recycling bins. Teach children why these items go in the recycling bins

**Slide 14-23: The journey of recycling**

Explicitly teach children the stages of sorting cardboard, plastic and metal in a materials recovery facility.

**Slide 24: Video**

This video outlines the how recyclable materials get sorted, and then recycled.

**Part 2****Slide 25-26: Recap of prior learning in Part 1****Slide 27-33: Material recycling**

Children learn about how plastic, cardboard and metal is recycled and turned into a new item.

**Slide 34-35: Recycling contamination**

Teach children why it is important to know what materials go in the recycling bin.

**Slide 37: The waste hierarchy**

Introduce the waste hierarchy so children can understand what methods of waste disposal are best and the worst for our environment.

**Slide 38-39: Ned's recycling tips**

Teach children 3 tips for reducing black bin bag waste.

**Slide 40-42: Optional extension activities**