

**LESSON 1 • KS1 • Y2 • SCIENCE, TECHNOLOGY, ENGINEERING & MATHS**

This lesson introduces learners to the concept of waste, recycling and recyclable materials through storytelling and interactive activities. Children will learn what happens to our waste and how it harms the planet. By taking part in interactive sorting tasks and discussions, children will develop a basic understanding of waste materials and feel empowered to become Recycling Heroes both at school and home.

**SUMMARY**

Lesson Time  
**50 mins**

DATE	
GROUP / CLASS	
SUBJECT	

**LEARNING OBJECTIVES**

- Understand the purpose of recycling
- Identify waste materials and talk about their properties
- Sort waste materials into the correct groups by type such as plastic, paper etc. and also by recycling and non-recycling
- Understand the concept of waste contamination and segregating waste streams

**RESOURCES**

- J&B Recycling Presentation for KS2
- Clean, child-safe waste items (plastic bottles, egg cartons, cardboard boxes, scrap paper, cereal boxes, yoghurt pots, crisp packets etc.)
- J&B Recycling 'Labels for Recycling Materials'
- Sorting trays, hula hoops or containers (plastic, paper, cardboard, metal etc.) - apply labels
- Optional - Printable recycling themed activities, colouring pens, pencils

## LESSON 1 • KS1 • Y2 • SCIENCE, TECHNOLOGY, ENGINEERING & MATHS

### LEARNING STRUCTURE

#### INTRODUCTION - SLIDESHOW (15 MINS)

- Slide presentation "Meet the Recycling Superheroes!"
- Slide 1 - Discuss what rubbish we throw away each day e.g. food waste, paper, empty cans, old clothes.
- Slide 2 & 3 - Discuss why waste is bad for the planet
- Slide 4 & 5 - Introduce concept of 3 x R's
- Slide 6 - Explain why recycling is better than manufacturing new products
- Slide 7 & 8 - Introduce the recycling superheroes
- Slide 9 - 11 - Discuss the properties of materials, exploring words to describe them and why they are suitable materials
- Slide 12 - 14 - Compare sweet wrappers that cannot be recycled with plastic-free packaging from brand's such as Tony's chocolate.

#### THE CONTAMINATED BIN - SORTING ACTIVITY (15 MINS)

- Divide the class into 4 x groups.
- Each group is given a clean bin / container filled with clean, child-safe waste items (see list in resource list on page 1). Ask the children to identify the incorrect materials and then sort the waste into piles of the same materials and identify materials that can and cannot be recycled at home.

#### DISCUSSION & LEARNING (10 MINS)

- Gather the class and review their sorting decisions.
- Encourage discussion about alternative recycling options for items that cannot be recycled at home e.g. take to a supermarket or the tip.

#### FUN ACTIVITIES (10 MINS)

- Give the children the J&B Recycling recycling themed activities such as design a recycling superhero, write an acrostic poem or describe the materials (see handouts)

## LESSON 1 • KS1 • Y2 • SCIENCE, TECHNOLOGY, ENGINEERING & MATHS

### TEACHER'S NOTES

#### KEY POINTS TO COMMUNICATE

- Recycling is better for the environment than manufacturing new products
- We should only recycle the correct materials at home
- Different materials have different properties

#### EXTENDED LEARNING

- Create a 'Recycling Superhero Comic Strip' with cartoons and a short story about recycling
- Nature walk and litter picking - Take the class on a litter pick around the school grounds. Talk about why litter picking helps wildlife and encourage children to separate materials into labelled bags
- Materials Hunt - Explore the classroom and draw objects that can be recycled.

#### FURTHER RESOURCES

- J&B Recycling has school Litter Picking Kits available to hire each term. Find out more on our website: [www.jbrecycling.co.uk/schools](http://www.jbrecycling.co.uk/schools)
- J&B Recycling can also visit your school to talk to share our knowledge about waste and recycling, please contact us to arrange a visit.