



# Fantastic Plastic? Workshop (Key Stage 2)

## Somerset Waste Action Programme

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| <p><b>Please Note: The activities included in this workshop may vary depending on your School's specific circumstances and the Waste Action Officer attending. When you book your workshop we will discuss your needs with you.</b></p>  |  |
| <p><b>Duration of Workshop : 1.5-2 hours</b></p>   |  |
| <p><b>National Curriculum Links:</b><br/>           Science: Sc3 Materials and their properties<br/>           Geography: 5a/b: Knowledge and understanding of environmental change and sustainable development.<br/>           Citizenship: 2a/j Preparing to play an active role as citizens<br/>           Design and Technology: 2 Working with tools, equipment, materials and components to make quality products.</p> <p><b>Links to DCSF/ QCA Schemes of work:</b><br/>           Science:1C Sorting materials<br/>                   2D Grouping and changing materials<br/>                   3C Characteristics of materials<br/>           Geography :Unit 8 Improving the Environment<br/>           Literacy Strands: Speaking, Listening and Responding</p> |  |
| <p><b>Objectives for the lesson:</b></p> <ul style="list-style-type: none"> <li>• To understand what happens to things that we throw away.</li> <li>• To identify that plastic is made from oil.</li> <li>• To identify the environmental impact of producing and disposing of plastic.</li> <li>• To identify the 3 Rs and how these can be applied to plastic waste.</li> </ul>  |  |
| <p><b>Common difficulties, errors and misconceptions:</b></p> <ul style="list-style-type: none"> <li>• That all refuse gets recycled.</li> <li>• Confusion over the types of plastic that can be recycled.</li> <li>• Confusion over the meaning of the 3Rs, especially Reduce.</li> </ul>   |  |
| <p><b>Assessment Criteria:</b></p> <ul style="list-style-type: none"> <li>• Students understand the environmental impacts of plastic products.</li> <li>• Students understand the benefits of reducing the amount of waste sent to landfill.</li> <li>• Students recognise the 3Rs</li> <li>• Students can identify the types of plastic containers that can be recycled and where they can take these to be recycled.</li> </ul>  |  |
| <p><b>Vocabulary:</b><br/>           Landfill, reduce, reuse, recycle, SWAP, kerbside collections, waste, rubbish, compost, crude oil, plastic, Household Waste Recycling Centre</p>   |  |
| <p><b>Resources to be collected by the school:</b><br/>           Plastic bottles (one 2L plastic 'pop' bottle complete with lid per child), Scissors, table coverings.</p>  | <p><b>Resources to be brought in by SWAP:</b><br/>           Power-point presentation (and projector if necessary); variety of products made from plastic, variety of products made from recycled plastic. All other resources needed for making either bird feeders or windmills.</p> |
| <p><b>Strategies:</b><br/> <b>Introduction:</b><br/>           Start by discussing what we use at home and school that is made from plastic (list on board). Use power-point presentation to discuss the environmental impact of products made of plastic 1) during their production 2) during their disposal. Discuss more sustainable alternatives: How can we use less plastic (reduce)? How can we make plastic products last (reuse)? How can we ensure that waste plastic doesn't end up in landfill (recycle)? Look at items made from recycled plastic- how are they made? What are the benefits of these products?</p>  |  |
| <p><b>Development:</b></p> <ul style="list-style-type: none"> <li>• Game: how many different uses for a plastic bottle can you think of in 1 minute? (work in small groups)</li> </ul>   |  |

- Game: What's it made of? Can you match the recycled product to the plastic 'rubbish' it's made from?
- Use a plastic bottle to make either a windmill or birdfeeder, depending on teacher's preference, time constraints and class size. Give clear step-by-step instructions and demonstrate each step to class as you go.

Plenary: What have you learnt about plastic? Do you think it's fantastic? What are the 3 Rs? How can we apply the 3Rs to a plastic container e.g. a plastic bottle?