

Six ways with a plastic bottle

Year level

Lower primary to upper primary with simplified and extension activities listed at the end of the lesson plan.

Lesson description

In groups students think of six different ways a plastic bottle could be reused and then create a poster to demonstrate these uses.

In this lesson students will become aware that:

- there are numerous ways that we can reuse everyday items
- reuse of items saves valuable resources from ending up in landfill.

Curriculum links

Foundation to Year 2

V 8.4 Use materials, components, tools, equipment and techniques to safely make designed solutions (*Design & Technologies - ACTDEP007*)

Foundation to Year 2

V 8.4 Explore needs or opportunities for designing, and the technologies needed to realise designed solutions (*Design & Technologies - ACTDEP005*)

V 9 Generate, communicate and evaluate design ideas, and use materials, equipment and steps to safely make a solution for a purpose (*Design and Technologies - AC9TDEFP01*)

Year 2

V 8.4 Different materials can be combined, including by mixing, for a particular purpose (*Science - ACSSU031*)

V 9 Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces (*Science – AC9S2U03*)

V 9 Identify how familiar products, services and environments are designed and produced by people to meet personal or local community needs and sustainability (*Design and Technologies - AC9TDE2K01*)

V 9 Use materials, components, tools, equipment and techniques to safely make designed solutions (*Design and Technologies - AC9TDE2P02*)

Years 3 and 4

V 8.4 Investigate the suitability of materials systems, components, tools and equipment for a range of purposes (*Design & Technologies - ACTDEK013*)

V 9 Explore needs or opportunities for designing, and test materials, components, tools, equipment and processes needed to create designed solutions (*Design and Technologies - AC9TDE4P01*)

V 9 Select and use materials, components, tools, equipment and techniques to safely make designed solutions (*Design and Technologies - AC9TDE4P03*)

Year 4

V 8.4 The sustainable management of waste from production and consumption (*Geography - ACHGK025*)

V 9 Sustainable use and management of renewable and non-renewable resources (*HASS – AC9HS4K06*)

Years 5 and 6

V 8.4 Investigate characteristics and properties of a range of materials, systems, components, tools and equipment and evaluate the impact of their use (*Design & Technologies – ACTDEK023*)

V 9 Explain how people in design and technologies occupations consider competing factors including sustainability in the design of products, services and environments (*Design and Technologies - AC9TDE6K01*)

V 9 Explain how characteristics and properties of materials, systems, components, tools and equipment affect their use when producing designed solutions (*Design and Technologies - AC9TDE6K05*)

Materials

- Plastic bottles

Procedure

1. Students work in small groups to come up with six ways that a plastic bottle could be reused. Their ideas are displayed in poster format and each group gives a presentation to the rest of the class about their ideas.
2. Discuss the importance of reuse as a way of reducing the amount of waste sent to landfill.

Extension activity

Students demonstrate the six new uses for the empty container. Different groups may like to think of six ways to reuse a different item, for example a sock.

Simplified activity

Class discusses different ways to reuse common household items once they come to the end of their 'original' life.