

# Project 4: Recycling waste

## Overview

In this project you will design and make (or model) a prototype of a litter bin for use in school. The bin should encourage people at school to recycle as much waste as possible.

### During this project you will learn about:

- c possibilities for recycling
- c materials that are recycled
- c ways of cutting out, joining and finishing materials
- c ergonomic factors.

## Background to the project

Recent years have seen a massive increase in the amount of product packaging – especially in countries of the North. This has led to lots of extra waste, which is unsustainable unless it is recycled. If we are to move towards a more sustainable way of living, we need to make the most of every opportunity to sort waste and recycle as much as possible.

Schools generate all sorts of waste – from paper and card, to plastics, glass and metals. Many teachers and students would like to recycle this waste, but don't have the technology to sort it into different types of material ready for recycling.

## Your brief

Design and make a litter bin for use in school that will encourage people to sort their waste into different types of recyclable material.

Your bin should be:

- c made from materials that are either recycled or recyclable
- c sturdy, attractive (think about where it will be used) and easy to use.

Either make a full-size working prototype or a scale model. When evaluating your design, you should consider all relevant sustainability issues.

## Possible outcomes

The type of things you could design and make include:

- c a working prototype of an eco-bin
- c a model of an eco-bin, an orthographic drawing (with dimensions), a presentation drawing and a materials specification.