

## WASTE

## Activity W02

**Theme**

Class activity (CA). Students build a 3D graph from used, clean drink cartons. These can be from the children's lunch or they can bring them from home.

**Objectives**

Encourage students to consider the amount of carton waste we produce, how it is disposed of and ways we can reduce it.

**Curricular Strands**

SESE, Science–Materials; Properties and characteristics of materials

SESE, Science and Geography–Environmental awareness and care

Maths–Data; Numbers; Shapes and space

**Skills**

Questioning, observing, predicting, sorting, classifying, recognising patterns, recording and communicating

**Time**

30 minute introduction and 10-15 minutes each day collecting

**Links to Green Schools**

Waste and Litter

# A juicy graph

## → COUNTING WASTE

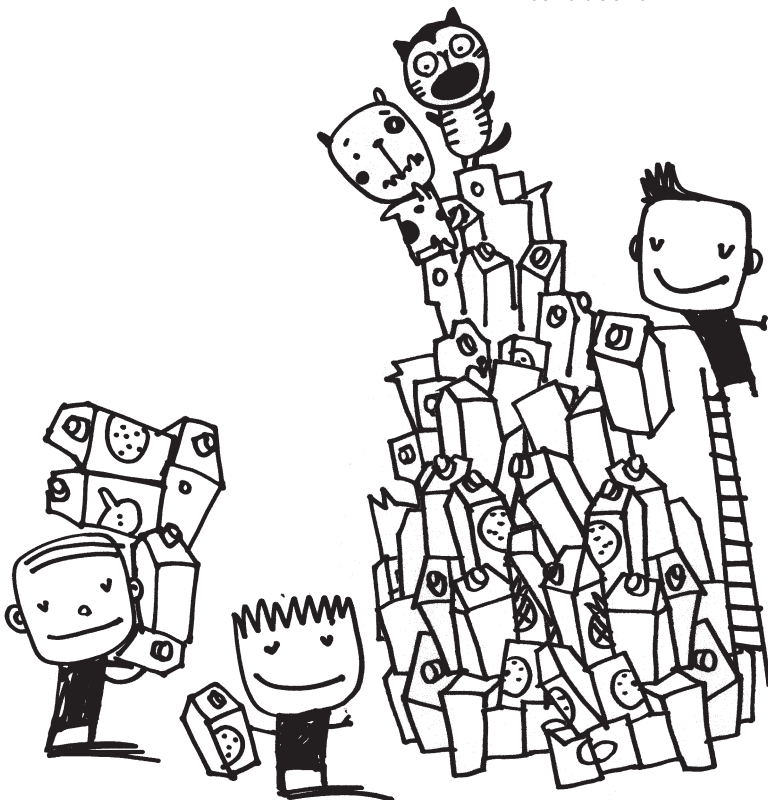
**WHAT YOU NEED**

- A long piece of cardboard (30cm x 1.5m)
- Paper
- Crayons/markers
- PVA glue
- Blu-tac
- Juice or drink cartons

**WHAT YOU DO**

- 1 Lay the cardboard (30cm x 1.5m) along the classroom wall
- 2 Ask groups in the class to draw or paint the days of the week on A4 sheets of paper
- 3 Stick these sheets to the cardboard

- 4 Explain to the students that you are making a drink carton graph.
- 6 Every day instead of throwing milk or juice cartons in the bin, collect and rinse them (this is a good habit for children to get into if the cartons are being recycled). If cartons are not brought to school or used for school milk, ask children to collect and clean cartons used for milk or juice at home (specify a size). The cartons should be rinsed well.
- 7 Each day stack the cartons on top of each other on the cardboard (use blu-tac if necessary). This will give you a 3D graph of the amount of carton waste the class send to landfill every week.



# WASTE

## Activity W02

Continued →

- 8 Pick a day when you will all try to use a reusable container for your drink and see the effect this has on the graph
- 9 You may wish to make a number of graphs from different sized cartons

### Questions

- 1 Look at the amount of space your carton graph takes up. Imagine the size of the wall of cartons in a year for your class or for your whole school.
- 2 Calculate the number of cartons generated in a year by your class.
- 3 What happened to cartons we throw in the bin?
- 4 On which days are there fewest cartons on the graph? Why?