**Water bottles**

**Key Stage One**

**NC references**

**Maths**

* interpret and construct simple tally charts, block diagrams and tables
* ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
* ask-and-answer questions about totalling and comparing categorical data

**Science**

Working scientifically

* Identify and classify

**Materials**

* identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
* describe the simple physical properties of a variety of everyday materials

**Learning objectives**

Identify different types of plastic: single use vs reusable

Use data to answer questions and persuade

**Teaching ideas**

**Learn about plastic pollution**

It would be useful for children to have learned about plastic pollution or completed the *Kids Against Plastic* Reading Comprehension before starting this lesson.

Look at pictures of water bottle pollution, especially single-use plastic bottles

[FACTS ABOUT PLASTIC BOTTLES HERE]

**Compare**

Compare single use plastic bottles and reusable plastic bottles. How are they similar and/ or different? Which is best for us? Which is best for the environment.

Children could compare the cost of the bottles, e.g. reusable bottle vs a new single use bottle every day for a school week.

**Identify and classify**

Count up class water bottles, sorting them into single-use vs reusable

This could be repeated with other/ all classes in the school

**Record**

There are several ways that the water bottle count could be completed:

* Sort the bottles into two large circles and photograph to compare.
* Line the bottles up in two lines like a simple bar chart and photograph so that children can count the bottles.
* Ask children to tally the bottles and record the totals.
* Children could complete a simple bar chart template for single-use and reusable bottles.

**Persuade**

Set the children the task of writing letters to children/ parents to persuade them to buy reusable bottles (or to regularly refill the single-use bottles rather than throwing them away) rather than using single-use bottles regularly.

Use the persuasion word bank to support writing.

**Resources**

Persuasion word bank

**Next steps**

* Link to Kids Against Plastic Reading Comprehension
* Have a water bottle design competition and fundraise or link with school PTA to create reusable school water bottles that can be purchased to reduce the use of single-use plastic.
* Follow up with the Kids Against Plastic 100 pieces of plastic pick – can the children collect and dispose of 100 pieces of litter?
* Develop idea to encouraging reusable snack pots instead of disposable packaging for break time snacks.