



# Worksheet 3 — Reduce Our Waste Challenge

## Investigation 3 — Student Worksheet

**Name:** \_\_\_\_\_ **Dates:** \_\_\_\_\_

### Part 1 — Our plan (Lesson A)

Our strategy is: \_\_\_\_\_

The ONE thing we are changing: \_\_\_\_\_

Things we are keeping the same: \_\_\_\_\_

My prediction: our average fill will change from about \_\_\_\_ % to about \_\_\_\_ %.

### Part 2 — Our data

Each day: take a reading (press the device's button or plug in the powerbank if your device has no switch, wait for the long beep), then write the fill % below.

| Day       | Baseline week (%)<br><i>Take a reading first!</i> | Challenge week (%)<br><i>Take a reading first!</i> | Anything unusual? |
|-----------|---------------------------------------------------|----------------------------------------------------|-------------------|
| Monday    |                                                   |                                                    |                   |
| Tuesday   |                                                   |                                                    |                   |
| Wednesday |                                                   |                                                    |                   |
| Thursday  |                                                   |                                                    |                   |
| Friday    |                                                   |                                                    |                   |
| Average   |                                                   |                                                    |                   |

Baseline average = (add the 5 values) ÷ 5 = \_\_\_\_\_ %

Challenge average = (add the 5 values) ÷ 5 = \_\_\_\_\_ %

### Part 3 — How much did we improve?

Improvement = (Baseline average – Challenge average) ÷ Baseline average × 100

Improvement = ( \_\_\_\_\_ – \_\_\_\_\_ ) ÷ \_\_\_\_\_ × 100 = \_\_\_\_\_ %

### Part 4 — Was it a fair test?



List anything unusual that happened in either week that could have changed the result.

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### **Part 5 — My verdict**

Did our strategy work? Use your numbers as evidence.

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### **Part 6 — My recommendation**

One thing our school should do about waste, based on our evidence: