

# W5L2 | Design a fair potato investigation

Wednesday | 09:30-10:10 | Explore | Depth route

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Core first. Your teacher will select the questions that fit this lesson. Write, speak, point or dictate your own words. Keep your first attempt so you can improve it.

## Work together

Choose the paper/sample route unless the approved practical has been arranged with suitable staffing and equipment.

Illustrative model/sample data - these are not measurements made by this class.

| Solution label                   | Initial mass / g | Final mass / g | Change / g | Change / % |
|----------------------------------|------------------|----------------|------------|------------|
| Water                            | 4.00             | 4.40           |            |            |
| 0.4 mol dm <sup>-3</sup> sucrose | 4.00             | 4.00           |            |            |
| 0.8 mol dm <sup>-3</sup> sucrose | 4.00             | 3.60           |            |            |

Route used: planning/sample data / approved practical. Record what actually happened.

**1. These are illustrative sample data. Complete mass change and percentage change.**

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**2. Name the independent variable, dependent variable and two controls.**

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# W5L2 | Continue and improve

Depth route | Use after the core questions when directed

**3. Some cylinders are not blotted. Explain the problem and a specific improvement.**

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## Transfer challenge

**Would one cylinder at each concentration show the spread of results?**

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## Go deeper

State a limitation, assumption or condition in your explanation. Say what extra evidence would make it stronger.

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## Improve the same work

One correction I made, and why:

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My request for next time: \_\_\_\_\_