

W5L2 | Design a fair potato investigation

Wednesday | 09:30–10:10 | Explore | Supported 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.

Your scaffold: Change = final mass minus initial mass. Percentage change = $\text{change} \div \text{initial mass} \times 100$. Keep the + or - sign.

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 ⁻³ sucrose	4.00	4.00		
0.8 mol dm ⁻³ 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.

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

W5L2 | Continue and improve

Supported route | Use after the core questions when directed

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

Optional transfer

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

Build your response: Point to the evidence. Name the science idea. Link them using “because”. Ask for a visual cue before asking for a worked answer.

Improve the same work

One correction I made, and why:

My request for next time: _____