

W5L3 | Data detective

Friday | 09:30–10:10 | Do | 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: Find each mean: add the repeats and divide by their number. Describe the trend. Keep unusual results visible and explain any choice to leave one out.

Work together

Use class data if available; otherwise label this dataset “illustrative sample data”.

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

Sucrose / mol dm ⁻³	Repeat 1 / %	Repeat 2 / %	Repeat 3 / %	Mean / %
0.0	18	20	22	
0.2	10	12	14	
0.4	0	2	4	
0.6	-10	-8	-6	
0.8	-18	-20	-22	

1. Complete all five means. Describe the trend.

2. Estimate zero change using a straight line between the nearest values either side of zero.

W5L3 | Continue and improve

Supported route | Use after the core questions when directed

3. An extra repeat at 0.6 gives +9%. What should you do before excluding it?

Optional transfer

Add the +9% repeat at 0.6. Find the new mean and explain its effect.

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: _____