

W6L2 | Two-clue uptake investigation

Wednesday | 09:30–10:10 | Explore | Editable pupil sheet

Name: _____ Date: _____

Core first. Write, speak, point or dictate your own words. Keep the first attempt so you can improve it.

Optional support: Use two clues: direction compared with the gradient, and what happens when respiration is reduced. Start: “This suggests ____ because...”

Work together

Read the concentration evidence. The numbers are model values in the same units.

Illustrative model/sample data; not measurements made by this class.

Context	Outside	Inside	Normal uptake index	Inhibited index
Root nitrate	2	8	100	15
Gut glucose	3	9	100	20

1. For each context, identify the gradient direction of inward uptake.

2. Explain why the two clues support active transport.

W6L2 | Continue and improve

Use after the core questions when directed

3. Link a root-hair adaptation and a gut-cell adaptation to their functions.

Optional transfer

What extra check would help show that the inhibitor did not simply kill the cells?

Depth: name an assumption or limit, then say what evidence would strengthen your answer.

Improve the same work

One correction I made, and why:

My request for next time: _____