

W6L1 | Carrier and energy model

Monday | 09:30–10:10 | Introduce | Editable pupil sheet

Name: _____ Date: _____

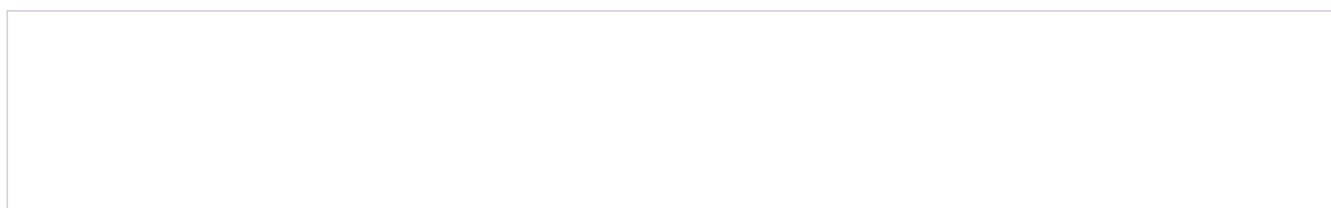
Core first. Write, speak, point or dictate your own words. Keep the first attempt so you can improve it.

Optional support: Compare the concentration outside and inside. Add an inward arrow. Start: “The ions move from ____ to _____. This needs...”

Work together

Draw two equal-volume regions: 2 nitrate-ion counters outside and 8 inside, separated by a membrane.

Your labelled sketch / arrows:



1. Which way is nitrate moving relative to its concentration gradient?

2. Name the mechanism and its energy source.

W6L1 | Continue and improve

Use after the core questions when directed

3. If respiration is greatly reduced, predict the effect on nitrate uptake and explain.

Optional transfer

Does a large surface area alone prove active transport?

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: _____