

W6L3 | Transport card sort

Friday | 09:30–10:10 | Do | 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: Ask: what moves, which way compared with the gradient, and is cellular energy needed? If a clue is missing, say what more you need to know.

Work together

Cut the four scenario cards or number them on paper; a seated route works equally well.

1. **A. Oxygen has a higher concentration in alveolar air than in arriving blood. It moves into blood.**

2. **B. Water enters a root cell from a solution more dilute than the cell solution, through a partially permeable membrane.**

W6L3 | Continue and improve

Use after the core questions when directed

3. **C. Mineral ions enter a root cell against their gradient; uptake requires energy from respiration.**

4. **D. A substance crosses a cell membrane. No other information is given.**

Optional transfer

Write one similarity and two linked differences between diffusion and 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: _____

Transport scenario cards

Place, number or point; cutting is optional

Sort into diffusion, osmosis, active transport or need more evidence. Give the deciding clue.

Sort each card. Give the deciding clue before naming the process.

Diffusion	Osmosis	Active transport	Need more evidence
A. Oxygen has a higher concentration in alveolar air than in arriving blood. It moves into blood.		B. Water enters a root cell from a solution more dilute than the cell solution, through a partially permeable membrane.	
C. Mineral ions enter a root cell against their gradient; uptake requires energy from respiration.		D. A substance crosses a cell membrane. No other information is given.	

My deciding clues
