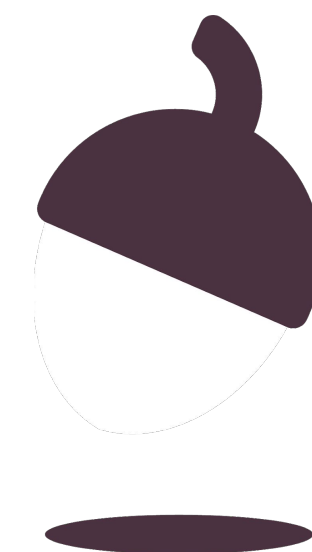


Combined Science - Biology - KS4
Organisation

Plant Roots

(Downloadable student document)

Mr Humphries



OAK
NATIONAL
ACADEMY

Independent Task

Explain how water enters a plant. (4)

Help

- Where does water enter the plant?
- What process does water move by?
- What are the concentrations of solution?
- Does it move up or down a concentration gradient?



Independent Task

Explain how substances enter the plant at the roots (6)

Help

- What process does water enter the roots by?
- How concentrated are the solutions in the soil and root hair cell?
- Does it move down or against a concentration gradient?
- What process do mineral ions enter the roots by?
- What is the concentration of mineral ions in the soil and root hair cell?
- Does it move down or against a concentration gradient?



Independent Task

Describe and explain adaptation of the root hair cell that make the movement of substances into the roots more efficient (4)

