

3 Diffusion and osmosis – Part 1 — Answers

Answers

Work through these after trying the questions yourself.

3.1 The net movement of particles from a higher concentration to a lower concentration (down the concentration gradient).

3.2 No.

3.3 Any two of: a larger surface area; a higher temperature; a steeper concentration gradient; a shorter distance.

3.4 The net movement of water across a partially permeable membrane (from a dilute to a concentrated solution).

3.5 To the concentrated solution.

3.6 The potato cells' sap is more concentrated than the pure water, so water moves **into** the cells by osmosis (across the partially permeable membranes), and the potato gains mass.