

Transport across cell membranes

Specification reference	Checklist questions	
3.2.3	Can you describe the arrangement and movement of phospholipids, proteins, glycoproteins and glycolipids in the fluid-mosaic model of membrane structure?	<input type="checkbox"/>
3.2.3	Can you explain that cholesterol may be present in cell membranes where it restricts the movement of other molecules making up the membrane?	<input type="checkbox"/>
3.2.3	Can you explain how movement across membranes occurs by simple diffusion, facilitated diffusion, osmosis, active transport, and co-transport?	<input type="checkbox"/>
3.2.3	Can you explain how cells may be adapted for rapid transport across their internal or external membranes: <ul style="list-style-type: none"> • by an increase in surface area of their membranes • by an increase in the number of protein channels and carrier molecules in their membranes? 	<input type="checkbox"/>
3.2.3	Can you explain the adaptations of specialised cells in relation to the rate of transport across their internal and external membranes?	<input type="checkbox"/>
3.2.3	Can you explain how surface area, number of channel or carrier proteins and differences in gradients of concentration or water potential affect the rate of movement across cell membranes?	<input type="checkbox"/>
3.2.3	Can you produce a dilution series of a solute to produce a calibration curve with which to identify the water potential of plant tissue?	<input type="checkbox"/>
3.2.3	Can you investigate the effect of a named variable on the permeability of cell-surface membranes?	<input type="checkbox"/>