

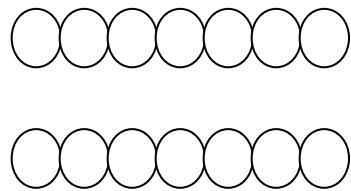
Biology I
Notes: Cellular Transport – Diffusion and Osmosis

Organelle	Function	Animal Cell	Plant Cell
Plasma Membrane			

Selectively permeable:

Simple diffusion:

- Explanation:
- Substances:
- Diagram:



Osmosis:

- Explanation:
- Substances:
- Examples of osmosis:

	Explanation	Diagram	Consequence
Isotonic		The diagram shows a central yellow oval representing a cell. Inside the oval, there are 10 red circles (solute molecules) and 10 blue circles (free water molecules). Outside the oval, there are also 10 red circles and 10 blue circles. Arrows indicate the movement of water molecules across the membrane, showing that the net movement is zero because the concentrations are equal on both sides. The text 'Isotonic Environment' is written at the bottom of the diagram.	
Hypotonic		The diagram shows a central yellow oval representing a cell. Inside the oval, there are 10 red circles (solute molecules) and 5 blue circles (free water molecules). Outside the oval, there are 10 red circles and 15 blue circles. Arrows indicate the movement of water molecules across the membrane, showing a net movement of water molecules from the outside (higher concentration) to the inside (lower concentration).	
Hypertonic		The diagram shows a central yellow oval representing a cell. Inside the oval, there are 10 red circles (solute molecules) and 5 blue circles (free water molecules). Outside the oval, there are 15 red circles and 5 blue circles. Arrows indicate the movement of water molecules across the membrane, showing a net movement of water molecules from the inside (lower concentration) to the outside (higher concentration).	

