Chapter 7 Section 4 Student Notes

Facilitated Diffusion

* Movement of materials across the plasma membrane using proteins

Channel Proteins



Carrier Proteins



Osmosis

* Diffusion of water across a selectively permeable membrane

Three Types of Osmotic Solutions

* Isotonic
* Hypotonic
* Hypertonic

Isotonic Solution

* Water and dissolved substances diffuse into and out of the cell at the same rate.



Hypotonic Solution

* Solute concentration is higher inside the cell.
* Water diffuses into the cell.



Hypertonic Solution

* Solute concentration is higher outside the cell.
* Water diffuses out of the cell.



Active Transport

* Movement of particles across the cell membrane using energy

Endocytosis

* Process by which the cell surrounds and takes particles into the cell

Exocytosis

* Secretion of material out of the plasma membrane