

CELL TRANSPORT

Cells need to transport food, proteins, lipids, carbohydrates, Water, CO₂, O₂, Wastes, Minerals, Hormones

No Energy

Energy

PASSIVE TRANSPORT
(From High-Low Concentration)

ACTIVE TRANSPORT
(From Low-High Concentration)

Particles

Water

Endocytosis
(movement of material **into** a cell)

Exocytosis
(movement of material **out** of cell)

Diffusion:
Movement of **particles** from an area of high concentration to an area of lower concentration

Facilitated Diffusion:
Diffusion using **carrier proteins/ protein channels**

Osmosis:
Movement of **water** from high conc. to low concentration through a semi-permeable membrane

liquid
Pinocytosis

solid
Phagocytosis

Cell Drinking

Cell Eating

Osmosis

Movement of water from high conc. to low concentration through a semi-permeable membrane

Hypotonic

1. Low concentration of particles outside the cell (high water outside)
2. Water moves inside the cell.
3. Cell Swells.

Isotonic

1. Concentrations are equal inside and outside of the cell
2. No net water movement
3. Dynamic Equilibrium

Hypertonic

1. High concentration of particles outside cell (low water outside)
2. Water moves outside the cell
3. Cell Shrinks

CELL TRANSPORT

No Energy

Energy

PASSIVE TRANSPORT
(From _____ Concentration)

ACTIVE TRANSPORT
(From _____ Concentration)

Particles

Water

Endocytosis
(movement of material _____ a cell)

Exocytosis
(movement of material _____ of cell)

_____ Movement of **particles** from an area of high concentration to an area of lower concentration

Facilitated Diffusion:
Diffusion using _____

Osmosis:
Movement of **water** from high conc. to low concentration through a _____

liquid

solid

Cell Drinking

Cell Eating

Osmosis

Hypotonic

1. Low concentration of particles outside the cell (high water _____)
2. Water moves _____ the cell.
3. Cell _____.

Isotonic

1. Concentrations are _____ inside and outside of the cell
2. No _____ water movement
3. D _____ Equilibrium

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1. High concentration of particles outside cell (low water outside)
 2. Water moves outside the cell
 3. Cell _____

Resources

- [Click Here to Begin!](#) - 10 question Transport Quiz
- [Osmosis](#) virtual lab