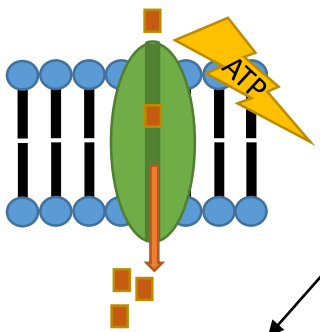


Cell Membrane Transport

Requires Energy



_____ Transport

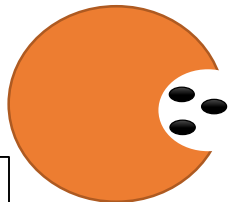
Molecules are exchanged through the cell's _____

Molecules always move _____ to _____ concentration

_____ Transport

Does Not Require Energy

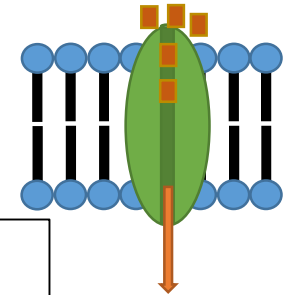
If proteins are used it is called: _____ transport



Large molecule move by

Into cell:

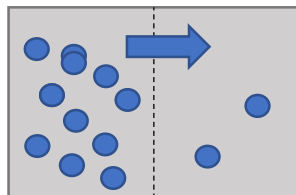
Out of cell:



Diffusion

Movement of Solutes

Movement of Water



Uses _____ to carry molecules through membrane

2 ways small molecules can move

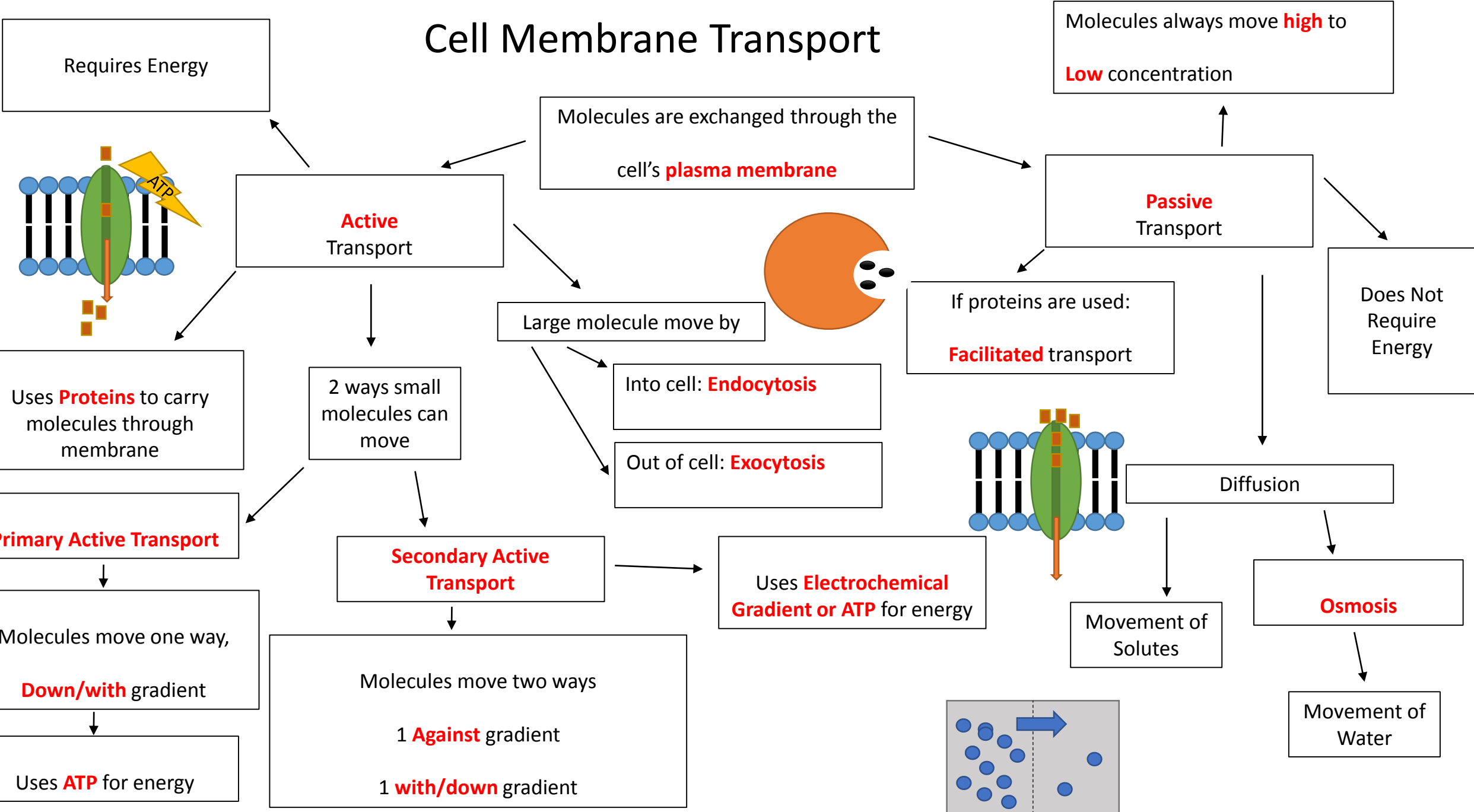
Molecules move one way, _____ gradient

Uses _____ for energy

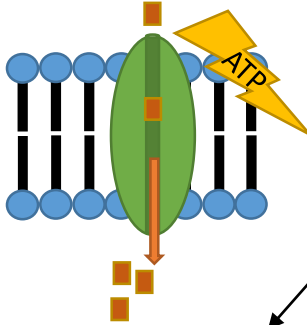
Uses _____ or _____ for energy

Molecules move two ways
 1 _____ gradient
 1 _____ gradient

Cell Membrane Transport



Requires Energy



Active
Transport

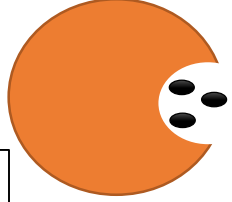
Molecules are exchanged through the cell's **plasma membrane**

Molecules always move **high** to **Low** concentration

Passive
Transport

Does Not
Require
Energy

If proteins are used:
Facilitated transport



Large molecule move by

Into cell: **Endocytosis**

Out of cell: **Exocytosis**

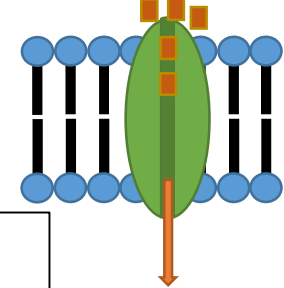
Uses **Proteins** to carry molecules through membrane

2 ways small molecules can move

Primary Active Transport

Secondary Active Transport

Uses **Electrochemical Gradient or ATP** for energy



Diffusion

Movement of
Solute

Osmosis

Movement of
Water

Molecules move one way,
Down/with gradient

Uses **ATP** for energy

Molecules move two ways
1 **Against** gradient
1 **with/down** gradient

