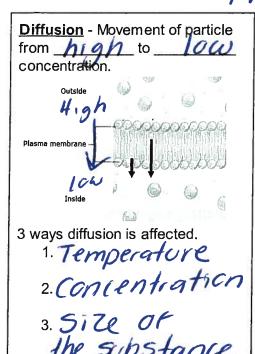
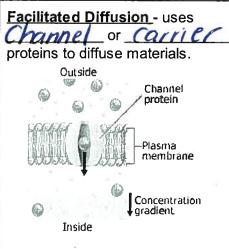
There are two main ways the cell moves substances across the plasma membrane.

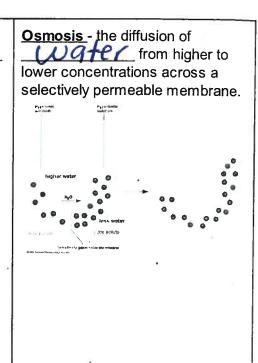
1. Passive Transport - \_\_\_\_\_\_ energy required.

Dynamic Egui I, beions the movement of particles until there is an even concentration throughout.

3 types of Passive Transport "Free







## **HOW WATER MOVES by OSMOSIS**

Hypotonic - MORE water outside the cell. Cell has more solute.
Water moves

Water Water

Water molecule Solute

Cell WELLS

Water molecule
 Solute

Cell STAYS the same size.

Hypertonic - LESS water outside the cells. Cell has less solute.

Water — Water

Water — Water

Solute

exp. Egg in water Egg in corn Syrup

Cell SHRINKS.

## 2. Active Transport - requires Energy (ATP) to move substances across the membrane.

-usually moves substances from 10w to high concentrations, against the gradient.

nance of Cell

- requires proteins to move substances.

Example- Na+ K+ pump

0

Extracellular fluid

## Other types of Active Transport

