## CELLS IN \_

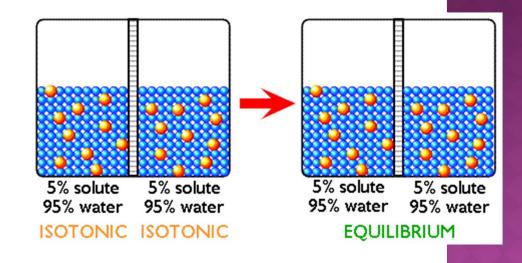
## SOLUTION

- same \_\_\_\_\_of water and solutes
- Solutes could be: sugars, proteins, etc
- Water

through membrane but

stays the same

Cell keeps its

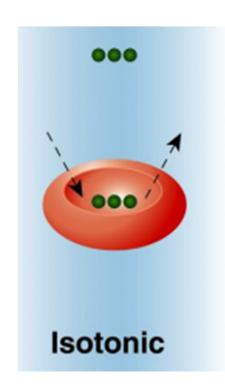


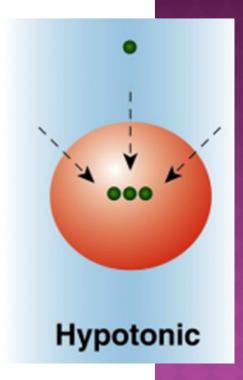
## CELLS IN A \_\_\_\_

### SOLUTION

- Cell is in a solution that has a \_\_\_\_\_
  concentration of
- More water \_\_\_\_the cell than \_\_\_\_
- Water will flow the cell
- Creates \_\_\_\_\_within the cell
- If pressure increases too high the cell
- Plants do not burst

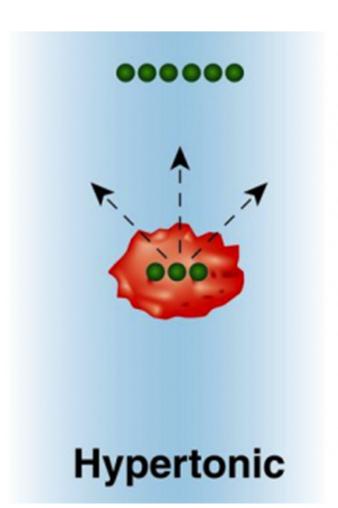
•



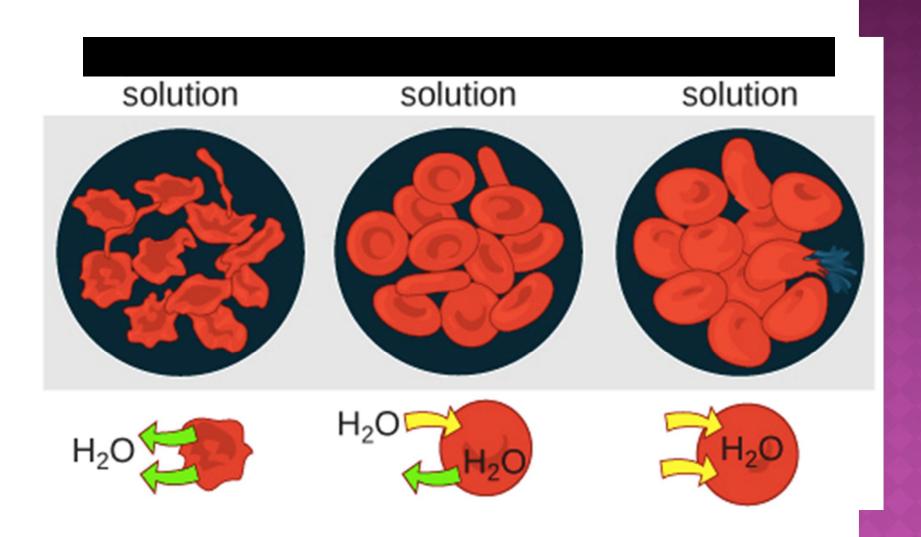


# CELLS IN A \_\_\_\_\_\_SOLUTION

- More solute
  - \_\_\_\_ of the cell than inside
- Water will
  - the cell
- Animal cells will
- Plant cells will



# ISOTONIC, HYPOTONIC, HYPERTONIC



# ACTIVE TRANSPORT

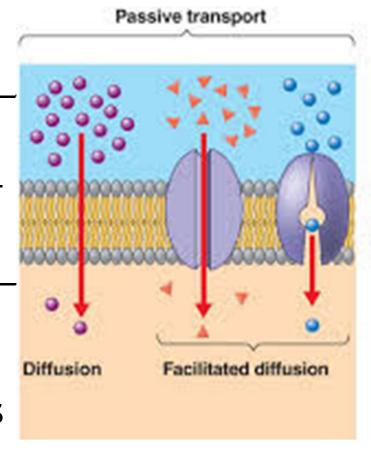
• Move from

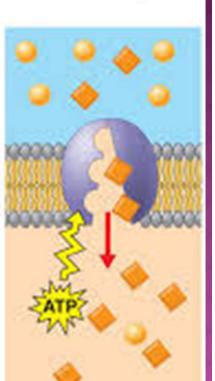
\_\_ to

UP THE HILL!

Requires \_\_\_\_\_

called pumps help substances across



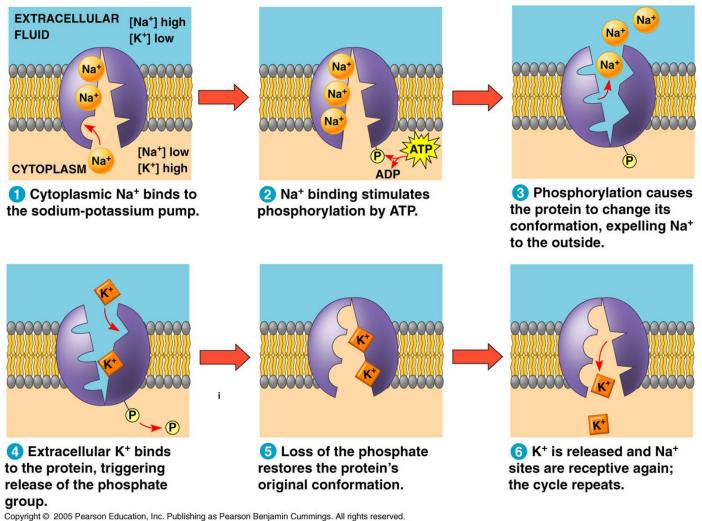


Active transport

## POTASSIUM PUMP

- Found in \_\_\_\_\_
- Balances the amount of sodium and potassium ions
  - Sodium ion = \_\_\_\_\_
  - Potassium ion = \_\_\_\_\_
  - These are atoms that have \_\_\_\_\_
- The pump \_\_\_\_\_\_
- Moves Na+ \_\_\_\_\_ of the cell AND K+\_\_\_\_\_ cell at same time

## SODIUM POTASSIUM PUMP



#### TRANSPORT OF LARGE PARTICLES

<ul><li>Endocytosis</li></ul>	<ul><li>Exocytosis</li></ul>
<ul><li>Cell</li><li>something on the</li></ul>	<ul><li>Secretes something of the</li></ul>
	cell
<ul><li>Brings the substance</li></ul>	<ul><li>Expel wastes</li></ul>
into the cell	<ul><li>Requires</li></ul>
<ul><li>off and</li></ul>	
leaves the	<ul><li>Opposite of</li></ul>
substance within	
the cell	

Requires \_\_\_\_

## TRANSPORT OF LARGE PARTICLES

