Name _____ Date _____ Page _____

Transportation Across Membranes of the Cell

On the back, choose one of the following to prove you know the difference between *active* and *passive* transport:

1. Write a campaign speech supporting one type of transport over the other.
2. Write a scary story where one type of transport is the villain and the other is the victim.
3. Draw a book cover for a story where the two types of transports are involved. Can be a romance, comedy, crime novel, etc.

Cell membrane =
Controls what Crosses it, what Comes + goes

Active Transport =
- occurs when substances Cross the cell using or needing energy
- moves from lower to higher concentration

★Sodium-Potassium Pump
- When sodium ions are pumped out of the cell and potassium ions are pumped in to the cell
- Both move from a lower to a higher Concentration

- two types – endocytosis
– exocytosis
- very large molecules Cross the plasma membrane with a different sort of help.

★Vesicle Transport

Homeostasis =
- The process of keeping a balance in a living organism
- If not kept in control cell may weaken or quickly die

Passive Transport = occurs when substances Cross the cell without the cell having to use energy

★Simple Diffusion
- movement across the membrane due to the difference in Concentration
- without help

- special type
- moves water across the membrane until inside and outside are equal

★Osmosis

- Diffusion with the help of transport proteins
- Carrier + Channel

★Facilitated