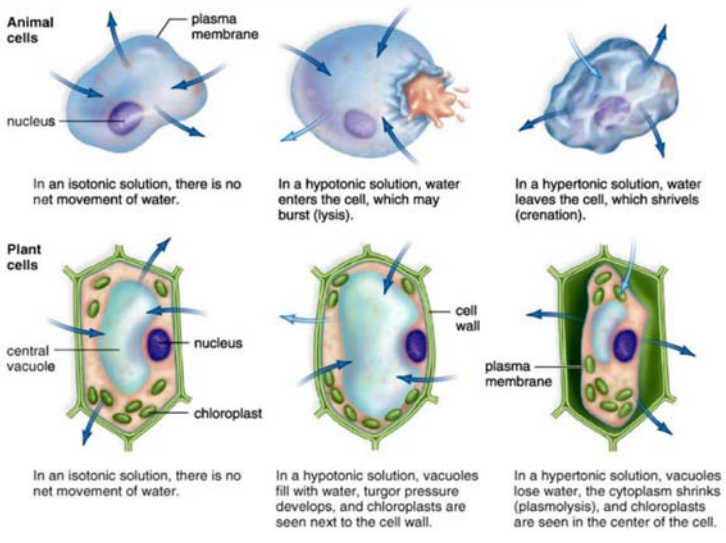


How Cells Maintain Homeostasis:

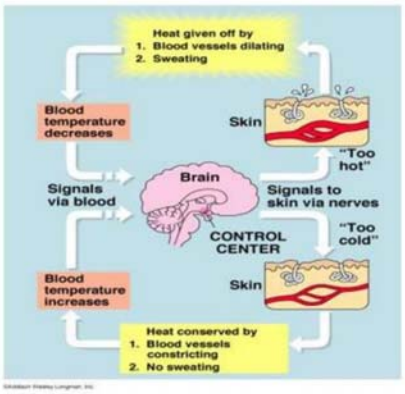
Balance/Regulate what goes in & out of cells through plasma membrane

How Body Systems Maintain Homeostasis:

Send chemical signals to regulate body processes

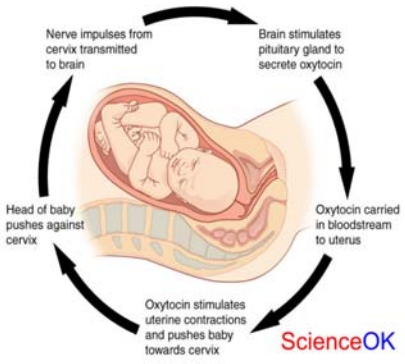
Negative Feedback:

Regulating an increase or decrease in body function by restoring levels in order to maintain homeostasis

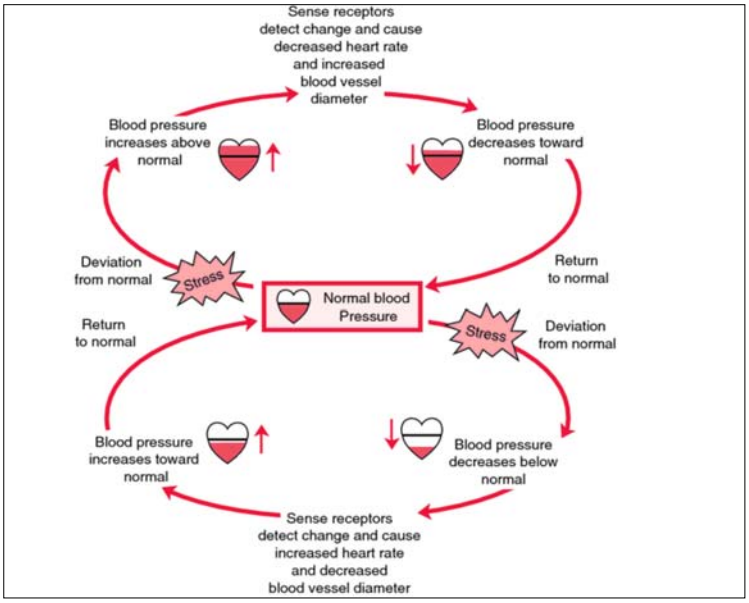


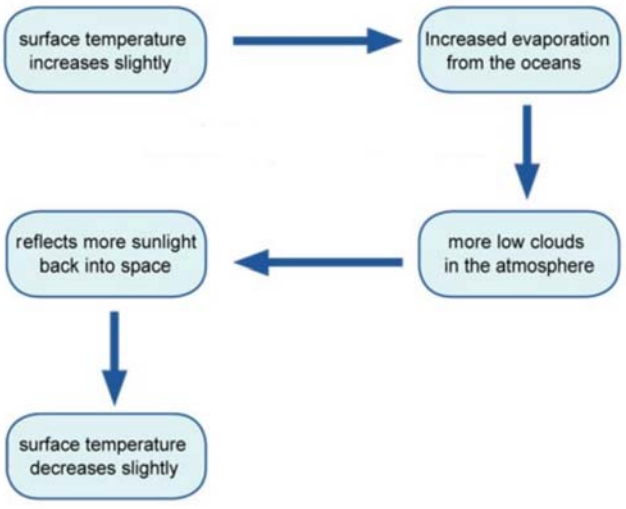
Positive Feedback:

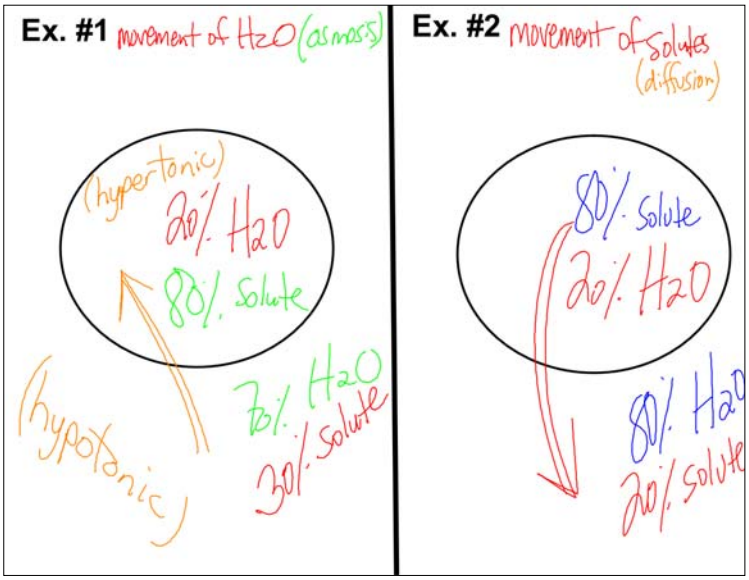
An enhancement/increase in a process; amplifying an effect



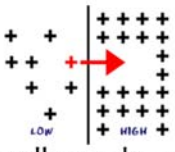
Label the following Body Systems:







Active Transport

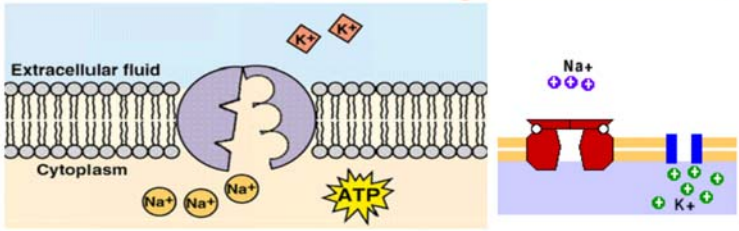


- Movement of Substances across cell membrane with ENERGY (ATP)

- Types:
  1. Sodium/Potassium Pump (Na+ K+)
  2. Endocytosis
     a) Pinocytosis
     b) Phagocytosis
  3. Exocytosis

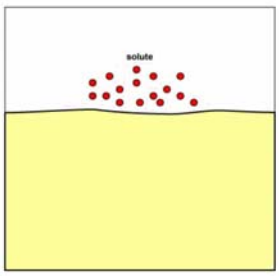
Na-K Pump

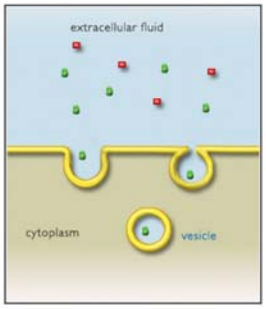
- Protein Channel that pumps 3 Na+ ions OUT of cell & 2 K+ ions INTO cell



ENDOCYTOSIS

- Cells Engulf substances that are too large to take through membrane IN a vessicle

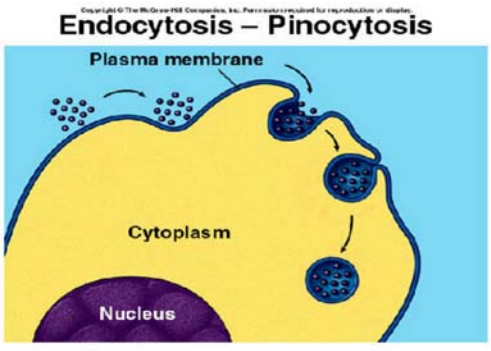




PINOCYTOSIS

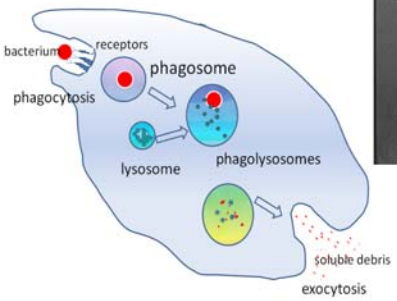
(solutions)

- Movement of solutes & solvents into cell
  - "Cell Drinking" Big Gulp



PHAGOCYTOSIS

- Movement of large food particles into cell
  - "Cell Eating"



EXOCYTOSIS

- Passage of larger molecules **OUT** of cell
  - Proteins leaving cell in secretory vessicle