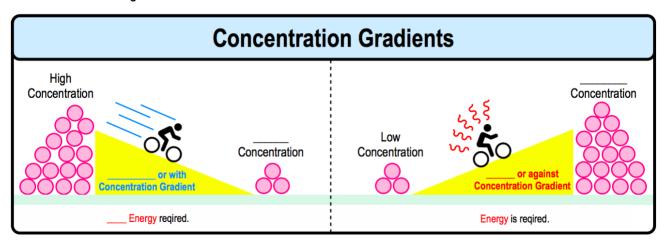
CONCEPT: CONCENCTRATION GRADIENTS & DIFFUSION

Concentration Gradient:	in the concentration of a substance between areas.
□ A molecule moves	(or down) its gradient when going from an area of high to low concentration.
□ A molecule moves	(or <i>up</i>) its gradient when going from an area of <i>low</i> to <i>high</i> concentration

EXAMPLE: Concentration gradients.

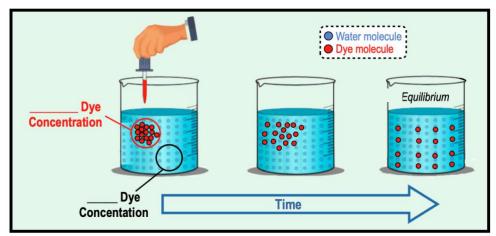


Diffusion

• The movement of a substance from an area of _____ concentration to an area of ____ concentration.

□ Molecules have natural tendency to diffuse ____ (down) their concentration gradients (from high to low).

EXAMPLE: Diffusion of a Dye in Water.



PRACTICE: Which of the following statements about diffusion is true?

- a) It's a process where water moves across a semi-permeable membrane to a region of high solute concentration.
- b) It requires an expenditure of energy by the cell.
- c) It's a process where molecules move from a region of lower concentration to a region of higher concentration.
- d) It's a process where molecules move from a region of higher concentration to a region of lower concentration.