Unit 2: Cells

Chapter 4- The Cell in Action

Life Science

Mr. Jones

(4-1: Exchange with the Environment)

Diffusion-

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Osmosis-

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Passive Transport-

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Active Transport-

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Endocytosis-

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Exocytosis-

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(4-2: Cell Energy)

Photosynthesis:

Cellular Respiration:

Fermentation:

(4-3: The Cell Cycle)

Cell Cycle:
Chromosomes- after each chromosome is duplicated, the two copies are called this.

Homologous Chromosomes- after each chromosome is duplicated, the two copies are called this.

Centromere- chromatids are held together at this central region.

Mitosis- after each chromosome is duplicated, the two copies are called this.

Cytokinesis- this structure becomes the new cell membranes that separate the new cells in plants, algae, and fungi.
Energy flows through:

- **Producers**
  - Photosynthesis
    - Requires light energy and water
    - Produces lactic acid

- **Consumers**
  - Fermentation
    - Requires food and oxygen
    - Produces ATP
  - Respiration
    - Requires food and oxygen
    - Produces ATP