

Mindspark

Biology Notes

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1. Cell Structure
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5. Reproduction in Plants & Animals

Chapter 1: Cell Structure

Cell = basic unit of life. Plant cell has wall + chloroplast; animal cell does not. Nucleus controls activities, mitochondria = powerhouse.

Chapter 2: Photosynthesis

Equation: $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$.

Chapter 3: Respiration

Aerobic: with oxygen, more energy.

Anaerobic: without oxygen, less energy.

Chapter 4: Human Digestive System

Food broken into nutrients by enzymes. Organs: mouth → stomach → intestines → absorption.

Chapter 5: Reproduction

Plants: sexual (flowers, seeds) & asexual (cuttings, budding). Animals: sexual reproduction.

Key Points: Diagrams are important; understand processes, don't just memorize.