

Study Guide- Unit 3 (II) Photosynthesis and Cellular Respiration

Essential Skills

- Be able to name the reactants and products of Photosynthesis
- Be able to name the reactants and products of Cellular Respiration
- Explain how the reactants and products of photosynthesis and respiration relate to each other.

Chemical Energy and Food

- Compare how autotrophs and heterotrophs obtain food.

Autotrophs are organisms that can produce their own food from the substances available in their surroundings using light (photosynthesis) or chemical energy (chemosynthesis). **Heterotrophs** cannot synthesize their own food and rely on other organisms -- both plants and animals -- for nutrition.

- Explain why ALL organisms need a source of food.

Food provides living things with the chemical building blocks they need to grow and reproduce. Food molecules contain chemical energy that is released when chemical bonds are broken.

- Explain why macromolecules (such as fats, proteins and carbohydrates) differ in the amount of energy they contain. What does it have to do with their chemical structure?

The energy stored in each of the macromolecules varies because of their chemical structures and therefore their energy storing bonds differ. For example, 1 gram of sugar releases 3811 calories of heat energy while 1 gram of fats from beef releases 8893 calories. Carbohydrates and proteins contain about 4000 calories of energy per gram.

Photosynthesis (General)

- Write the overall chemical equation for photosynthesis (label the reactants & the products).



- Draw a picture of ATP and show how it gains and loses energy.



- Label the diagram on the right with the following terms:

- Calvin Cycle
- ATP
- NADPH
- Light energy
- Light Reactions
- H₂O
- CO₂
- Sugar
- O₂



Keys Test Study Guide

Julia Schneider



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