Photosynthesis and Cell Respiration

Photosynthesis (pages 79-86)

1. What molecule is the primary energy source for cells?

2. Define:
   a. Autotroph –
   b. Heterotroph –
3. Write down the chemical equation for photosynthesis:

4. What happens during the light reaction of photosynthesis?

5. During the Calvin Cycle _____ is converted to _____.
6. Photosynthesis takes place in the _____ (organelle).

Cell Respiration (pages 90-95)

7. What is cellular respiration? (p. 90)

8. Cellular respiration converts _____ into _____. (p. 90)

9. Write down the equation for cellular respiration: (p. 91)

10. Compare the equations for photosynthesis and cellular respiration, what do you notice about them?

11. Cellular respiration mainly takes place in what organelle? (p. 91)

12. Fermentation is when cells do cellular respiration without oxygen. Give an example of fermentation in humans and describe what is produced. (p. 94)

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