

Growth and Energy

Study Guide B

Answer Key

SECTION 1. CHEMICAL ENERGY AND ATP

1. adenosine triphosphate (ATP):
2. a macromolecular storehouse energy stored via linked electrons and stored nucleotides in cell processes.
3. ATP is a high-energy molecule that is converted into lower-energy ADP when a phosphate group is removed and energy is released. ADP is converted back into ATP by the addition of a phosphate group.
4. **ATPase**: High-energy adenosine triphosphate (ATP): Phosphate removed, energy released. Lesser-energy adenosine triphosphate (ADP): Energy added from linked electrons and carbon-based nucleotides, phosphate added.
5. nucleotides stored chemically: Sulfur atoms: glucose yields about 360 ATPs; A carbon-sulfur pair (e.g. C4) yields four groups.
6. same stored via sulfur atoms: Sulfur: sulphate: yields about 1440 ATPs; 9 carbon-sulfur pairs (e.g. C4) yields four groups.
7. same stored via sulfur atoms: Sulfur: sulphide: yields about 1440 ATPs; 12 carbon-sulfur pairs (e.g. C4) yields four groups.
8. a process by which some organisms use chemical energy stored in high-energy or lesser-energy carbon-based molecules.
9. ATP has three phosphate groups, ADP has two phosphate groups.
10. **T-sugars**: They mean "not plus together with other side." In other words, chemical energy is used to produce carbon-based molecules that split apart.

SECTION 3. *ONLINEVIEW.COM* PHOTOGRAPHY

- 1. they produce the same self-reinforced energy for themselves and for other organisms.
- 2. the supposed bigots energy is created, supports other's own self-reinforced energy.

10. **What are the main challenges in the development of
new technologies?**
See notes, [Section 10](#).

3. a molecule in chloroplasts that absorbs some of the energy in visible light.
4. membrane-bound organelles where photosynthesis takes place in plants.
5. leaves and stems.
6. sun-shaped, membrane-bound sacs where photosynthesis inside the green.
7. $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$
 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2$
 Chlorotic chlorophyll and water (the reactants) enter photosynthesis. Through many chemical reactions, each the help of many enzymes, a six-carbon sugar and oxygen (the products) are formed.
8. The light-dependent reactions require light, and they absorb and transform energy. The light-independent reactions do not directly need light, and they build sugars. **Light** for **Chloroplast Stages** (1) Energy from sunlight is absorbed and transferred among the chloroplast membrane. Water molecules are broken down and oxygen is released. (2) Energy stored along the chloroplast membrane is transferred to molecules that carry energy to the light-independent reactions. (3) Chlorotic chlorophyll is reduced by a cycle of chemical reactions to build sugar molecules. (4) A six-carbon sugar (usually glucose; $C_6H_{12}O_6$) is formed.
9. Energy from light is used to put sugars together.
10. Chlorophyll B is the light-absorbing molecule that makes leaves look green.
11. The light-dependent reactions require sunlight, the light-independent reactions don't need sunlight.

SECTION 3. PHOTOSYNTHESIS BY PLANTS

- 1. non-significant small intracellular synapses
- 2. synapses with intracellular efflux of transmitter and transmitter recycling

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Patrick Vollmar

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