# Cell Energy - Photosynthesis Study Guide

Study all notes and read Ch 4.1-4.3.

Circle the word or phrase that best completes the statement.

- All cells use adenosine triphosphate (ATP) for energy. ATP is a molecule / organelle that transfers energy from the breakdown of ADP / food molecules to cell processes.
- ATP is a high-energy / low-energy molecule that is converted into higher-energy / lower-energy ADP when a phosphate group is removed and energy is released.
- 3. ADP is converted back into ATP by the addition of a phosphate group / food molecule.
- Chemosynthesis is a process by which some organisms use chemical energy / light energy instead of chemical energy / light energy to make energy-storing carbon-based molecules.
- The light-dependent reactions require light / do not require light, and they absorb and transfer sugars/energy.
- The light-independent reactions require light / do not require light, and they build sugars / energy.
- Some organisms are called producers because they produce the source of chemical energy / light energy for themselves and for other organisms.
- Photosynthesis captures chemical energy / light energy to make sugars that store chemical energy / light energy.
- Chlorophyll is a molecule in chloroplasts that absorbs some of the energy in visible light / ultraviolet light.
- The electron transport chain is a series of proteins / carbohydrates in the thylakoid membrane along which energized electrons travel.
- 11. The first part of an enzyme's name tells you about its function. All enzymes end with the suffix -ase. Therefore, ATP synthase is an enzyme that synthesizes / synchronizes ATP.
- 12. The word cycle tells you that the chemical reactions of the Calvin cycle go from one to another with a beginning and an end / with no beginning or end.

## Vocabulary Check

WORD BANK: energy, sugar, photosynthesis, capture, transfer, stroma, thylakoid, grana, 2, 3, chemical, green, molecules (2x), independent, ATP, NADPH

Fill in each blank with the word or phrase that best completes the sentence.

- 13. The prefix tri- means "three," and the prefix di- means "two." Therefore, adenosine triphosphate (ATP) has \_\_\_\_\_\_ phosphate groups, and adenosine diphosphate (ADP) has \_\_\_\_\_ phosphate groups.
- 14. The prefix chemo- means "chemical," and synthesis comes from a Greek word that means "to put together." Therefore, chemosynthesis means "to put together with chemicals." In chemosynthesis, energy is used to produce carbon-based \_\_\_\_\_\_\_\_ that store energy.

# **Cell Energy Study Guide Photosynthesis Review Key**

**Kathy Austin** 

#### **Cell Energy Study Guide Photosynthesis Review Key:**

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