

Section Quick Check

CHAPTER 8 Section 2: Photosynthesis

After reading the section in your textbook, respond to each statement.

1. **State** the process of photosynthesis as a chemical reaction.

2. **Summarize** the four things that are needed for photosynthesis to occur.

3. **Discuss** two reasons why animals rely on autotrophs' ability to photosynthesize.

4. **Identify** at least three types of organisms (three different kingdoms) that can photosynthesize.

5. **Identify** at least two types of organisms (2 different kingdoms) that cannot perform photosynthesis, and **explain** why they cannot. (Hint: These organisms are missing a certain organelle or pigment.)

6. **Deduce** how you can tell if an organism carries out photosynthesis just by looking at its cells under a microscope.

7. **Summarize** the energy transformation that photosynthesis accomplishes. What type of energy does it use, and what type of energy does it produce?

8. **Rewrite** the chemical equation for photosynthesis on the back of this sheet. Label the reactants and the products.