**Anticipation Guide: Photosynthesis: Energy For Life**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_**

*In the “Before” column write “true” if the statement is true or “false” if the statement is false.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1. Some bacteria can photosynthesize.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. All bacteria use light energy to fix carbon.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. When chlorophyll molecules absorb light, electrons are energized.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. A molecule of glucose has a total of 3 carbon atoms.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. ATP contains a phosphate atom.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Carbon dioxide is a waste product of photosynthesis.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. Oxygen is a product of photosynthesis.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Methane is the source of carbon for photosynthesis.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. All chemical reactions have two reactants and two products.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Most of the ATP produced by a plant cell is exported from the cell.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. Plant cells can store energy in the form of carbon-containing compounds.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. Breaking chemical bonds in food molecules can release some heat.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13. There are internal membranes inside a chloroplast.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14. Chlorophyll molecules are embedded in the thylakoid membranes of chloroplasts.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15. The reactions of the Calvin Cycle occur inside the chloroplast.