

## Anticipation Guide: Photosynthesis and Cellular Respiration

Before starting the activity, mark whether you agree (+) or disagree (-) with each statement below.

After completing the activity, mark whether you agree (+) or disagree (-) with each statement below. Under each statement, explain how the activity gave evidence to support or change your ideas.

Before	After	
_____	_____	1. All living cells need energy to function. _____ _____
_____	_____	2. If no sunlight is available, the cells of producers immediately run out of energy. _____ _____
_____	_____	3. All producers and consumers ultimately depend on the sugars that are produced during photosynthesis. _____ _____
_____	_____	4. Cellular respiration is the process by which oxygen enters the lungs. _____ _____
_____	_____	5. Photosynthesis occurs in many types of cells in a producer. _____ _____
_____	_____	6. Cellular respiration occurs in many types of cells in producers and consumers. _____ _____
_____	_____	7. Oxygen is needed for every reaction of cellular respiration. _____ _____
_____	_____	8. Photosynthesis and respiration both require pigments. _____ _____
_____	_____	9. Photosynthesis and respiration both require a number of specialized enzymes. _____ _____
_____	_____	10. Photosynthesis converts solar energy into chemical energy. _____ _____