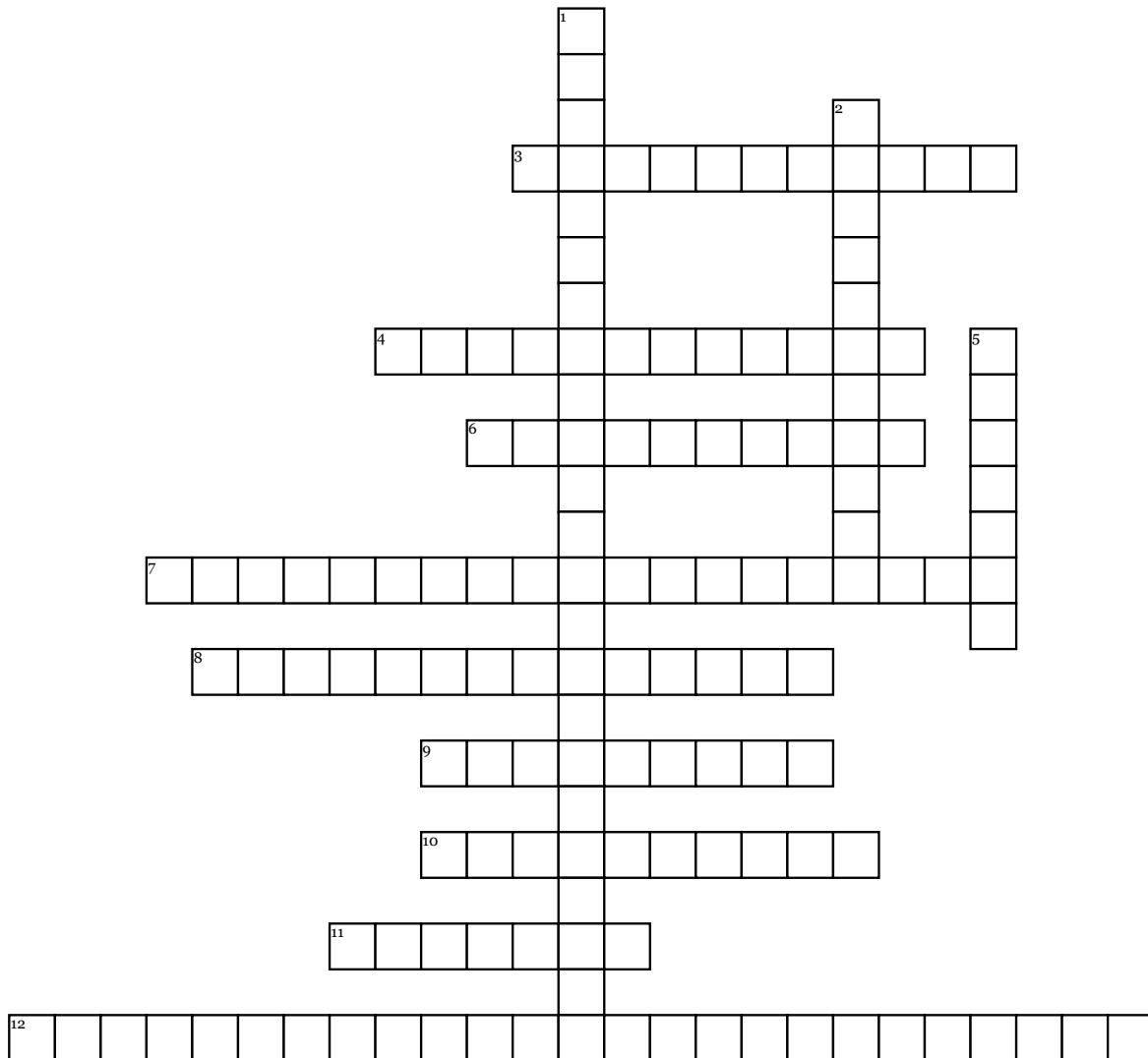


Name: _____

Chapters 8 & 9 vocabulary terms



Across

3. principal pigment of plants and other photosynthetic organisms

4. process by which cells release energy in the absence of oxygen

6. second stage of cellular respiration in which pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions

7. process that releases energy by breaking down glucose and other food molecules in the presence of oxygen

8. process used by plants and other autotrophs to capture light energy and use it to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches

9. process that does not require oxygen

10. first set of reactions in the cellular respiration in which the molecule of glucose is broken into two molecules of pyruvic acid

11. process that requires oxygen

12. set of reactions in photosynthesis that do not require light; energy from ATP and NADPH is used to build high-energy compounds such as sugar; also called the Calvin Cycle

Down

1. set of reactions in photosynthesis that use energy from light to produce ATP and NADPH

2. organelle found in the cells of plants and some other organisms that captures the energy from sunlight and converts it into chemical energy

5. light-absorbing molecule used by plants to gather the sun's energy