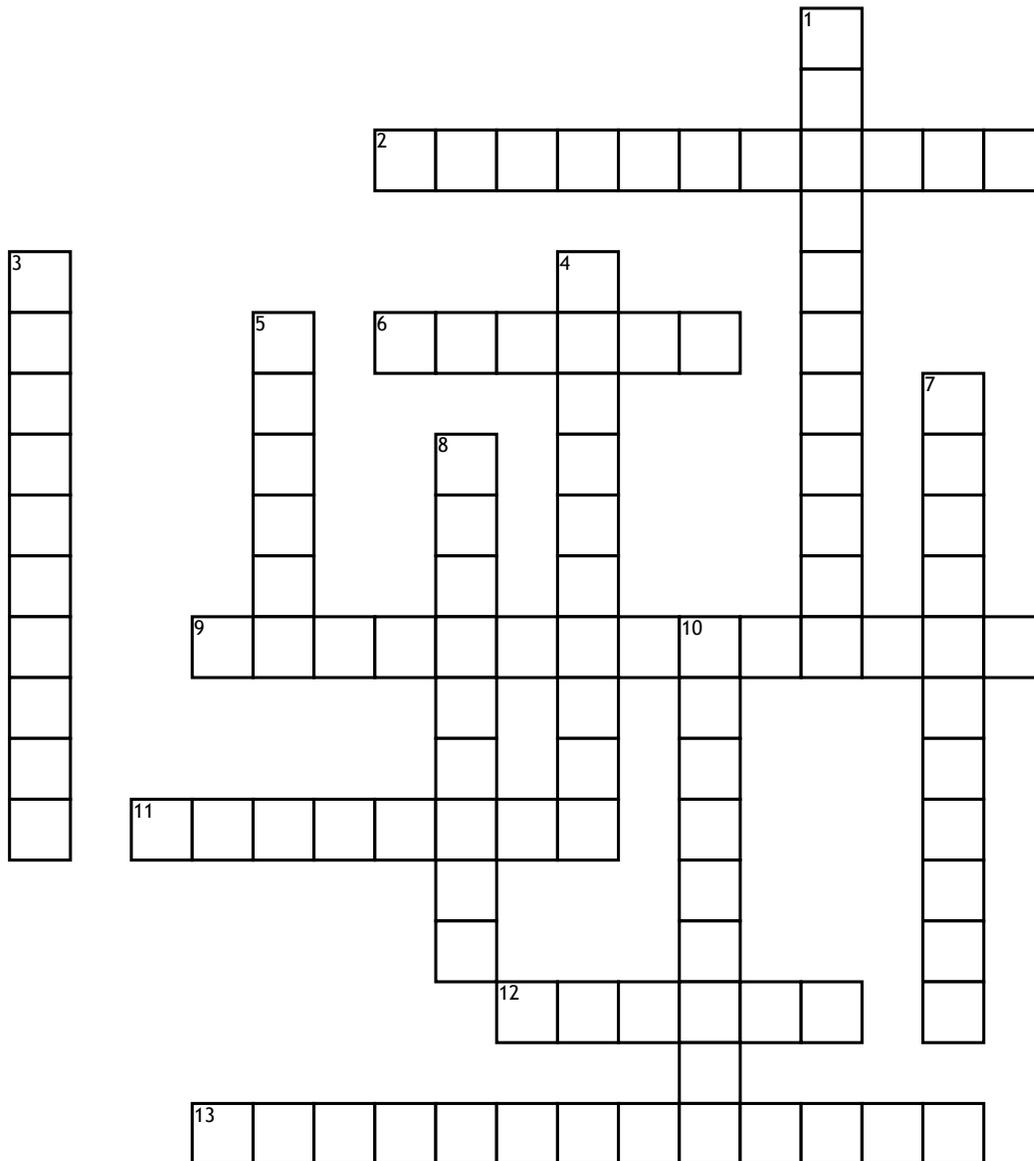


Photosynthesis and Respiration



Across

- 2. organelle found in cells of plants and some other organisms that captures the energy from sunlight and converts it into chemical energy
- 6. innermost compartment of the mitochondrion
- 9. process used by plants and other autotrophs to capture light energy and use it to power chemical reactions
- 11. the carboxylate anion of pyruvic acid

12. fluid portion of the chloroplast, outside of the thylakoids

13. cell organelle that converts the chemical energy stored in food into compounds that are more convenient for the cell to use

Down

- 1. energy from ATP and NADPH is used to build high-energy compounds such as sugar
- 3. first set of reactions in cellular respiration in which a molecule of glucose is broken into two molecules of pyruvic acid

4. pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions

5. A polysaccharide carbohydrate consisting of a large number of glucose molecules joined together by glycosidic bonds

7. the process of inhaling and exhaling gases from and into the external environment

8. in eukaryotic cells, all cellular contents outside the nucleus— in prokaryotic cells, all of the cell's contents

10. saclike photosynthetic membranes found in chloroplast