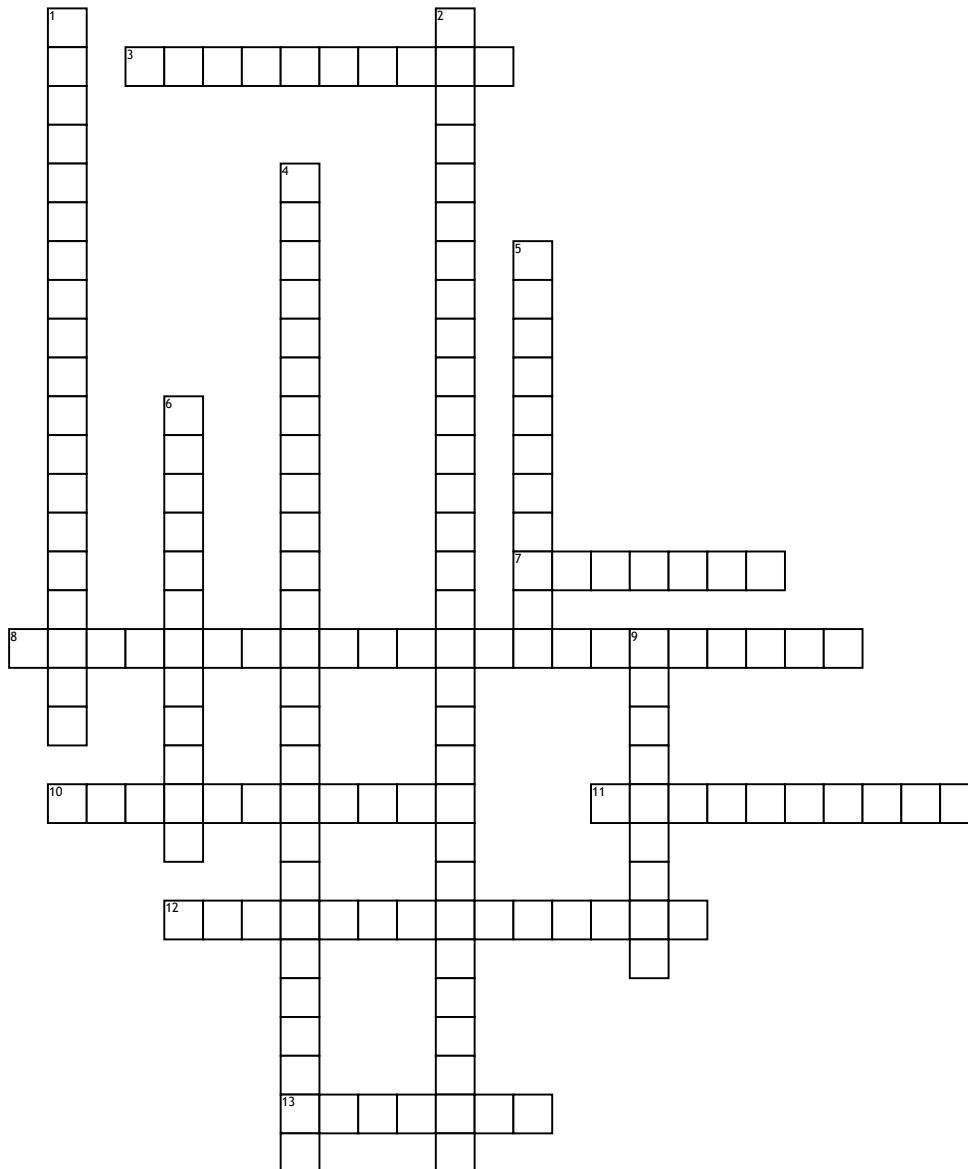


# Photosynthetic



## Across

3. First set of reactions in cellular respiration in which a molecule of glucose is broken into two molecules of pyruvic acid

7. Process that requires oxygen

8. Set of reactions in photosynthesis that use energy from light to produce ATP and NADPH

10. Principal pigment of plants and other photosynthetic organisms

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

12. 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

13. Light absorbing molecule used by plants to gather the sun's energy

## Down

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

2. 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

4. Compound used by cells to store and release energy

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

6. Process by which cells release energy in the absence of oxygen

9. Process that does not require oxygen