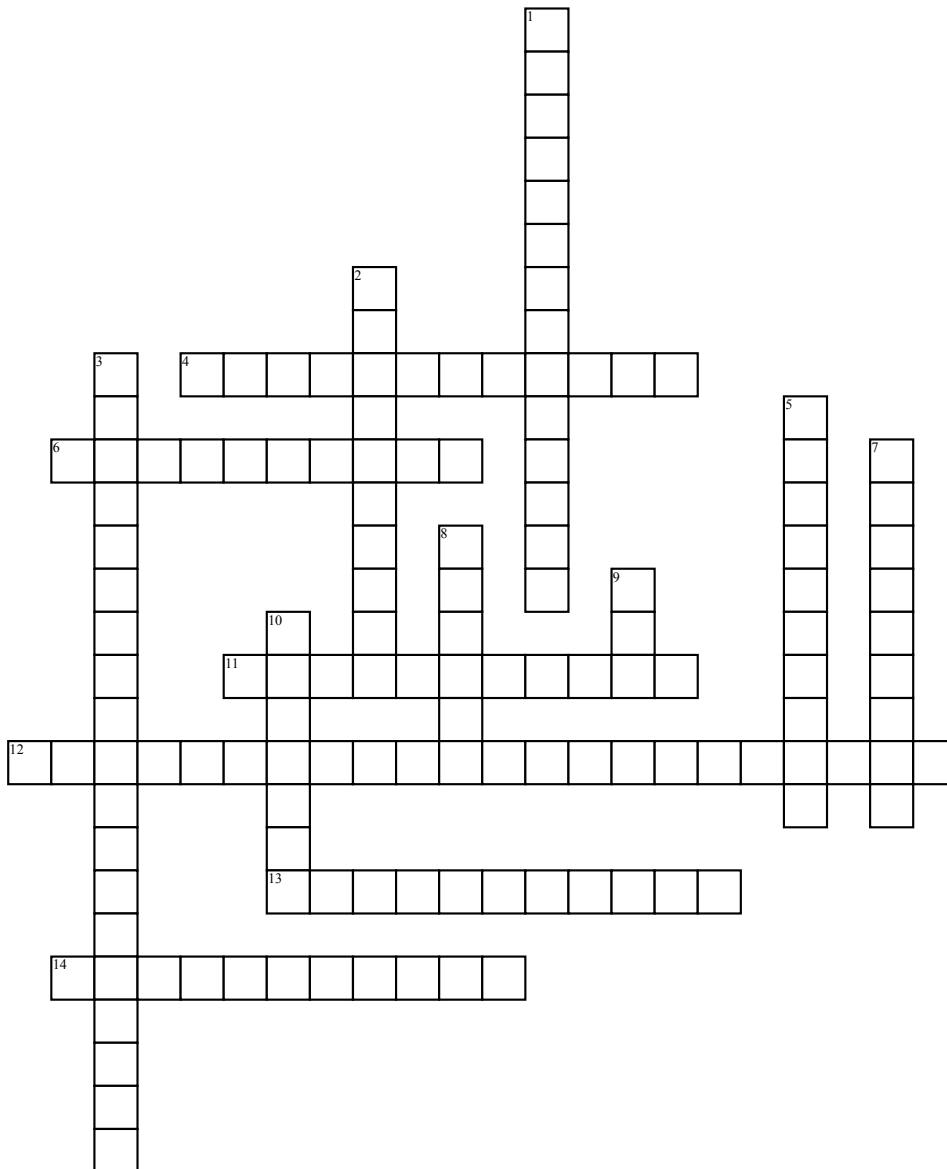


Photosynthesis & Cellular Respiration



Across

- 4. a partial degradation of sugars that occurs without oxygen
- 6. the breakdown of one molecule of glucose into two molecules of pyruvate with a small net yield of ATP
- 11. organism that obtains food by consuming other living things
- 12. a series of molecules built into the inner mitochondria membrane
- 13. principal pigment of plants and other photosynthetic organisms

- 14. light independent reactions of photosynthesis in which energy from ATP and NADPH is used to build high energy compounds such as sugar

Down

- 1. the water and carbon dioxide into carbohydrates and oxygen process in which plants use the energy from sunlight to convert
- 2. where pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions; occurs in the mitochondria

- 3. the process that releases Energy by breaking down food molecules in the presence of oxygen
- 5. an organism capable of synthesizing its own food using sunlight
- 7. a process that does not require oxygen
- 8. fluid portion of the chloroplasts; outside the thylakoids
- 9. Adenosine triphosphate; an electron carrier
- 10. occurs in the presence of oxygen