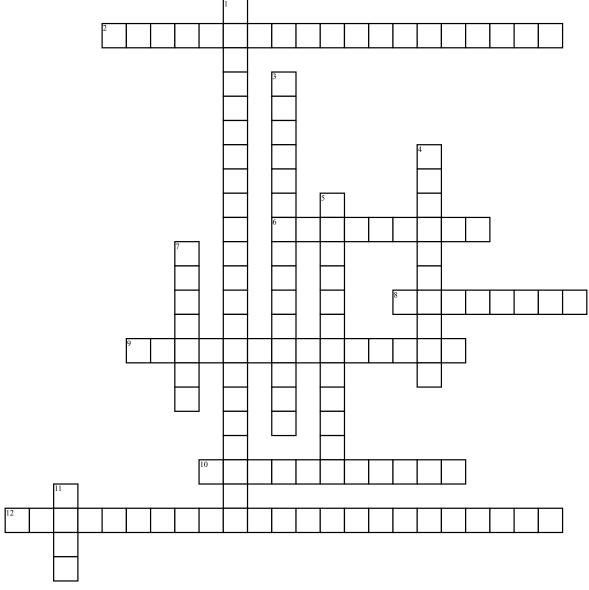
Cellular Respiration and Photosynthesis



Across

- **2.** A process to convert sugars into energy.
- **6.** This molecule is created by oxidizing pyruvate and is used in the Citric Acid Cycle.
- **8.** Two of this molecule is produced in Glycolysis that can either be used for anaerobic or aerobic respiration.
- **9.** This is a process mainly used in plants to convert sugar to energy and has the equation 6CO2 + 6H2O \rightarrow C6H12O6 + 6O2.
- 10. Part of Photosynthesis, this process occurs in the Chloroplast and requires three CO2, nine ATP, and six NADPH to produce one G3P (considered a light-independent 4. This process occurs in the reaction).
- 12. Part of the Photosynthesis process uses light energy and H2O to produce O2, ATP, and NADPH.

Down

1. This process occurs in the Mitochondrial Cristae and produces 26-28 ATP.

- **3.** A aerobic respiration process that uses Acetyl CoA and produces four CO2, two FADH2, and two ATP.
- Cytoplasm and breaks down Glucose resulting in a net gain of two NADH and four ATP.
- **5.** An anaerobic process that produces Lactic acid and Ethanol.
- 7. The starting sugar for Cellular Respiration.
- 11. The product required to make one molecule of glucose through the Calvin Cycle. It uses six CO2, eighteen ATP, and twelve NADPH.