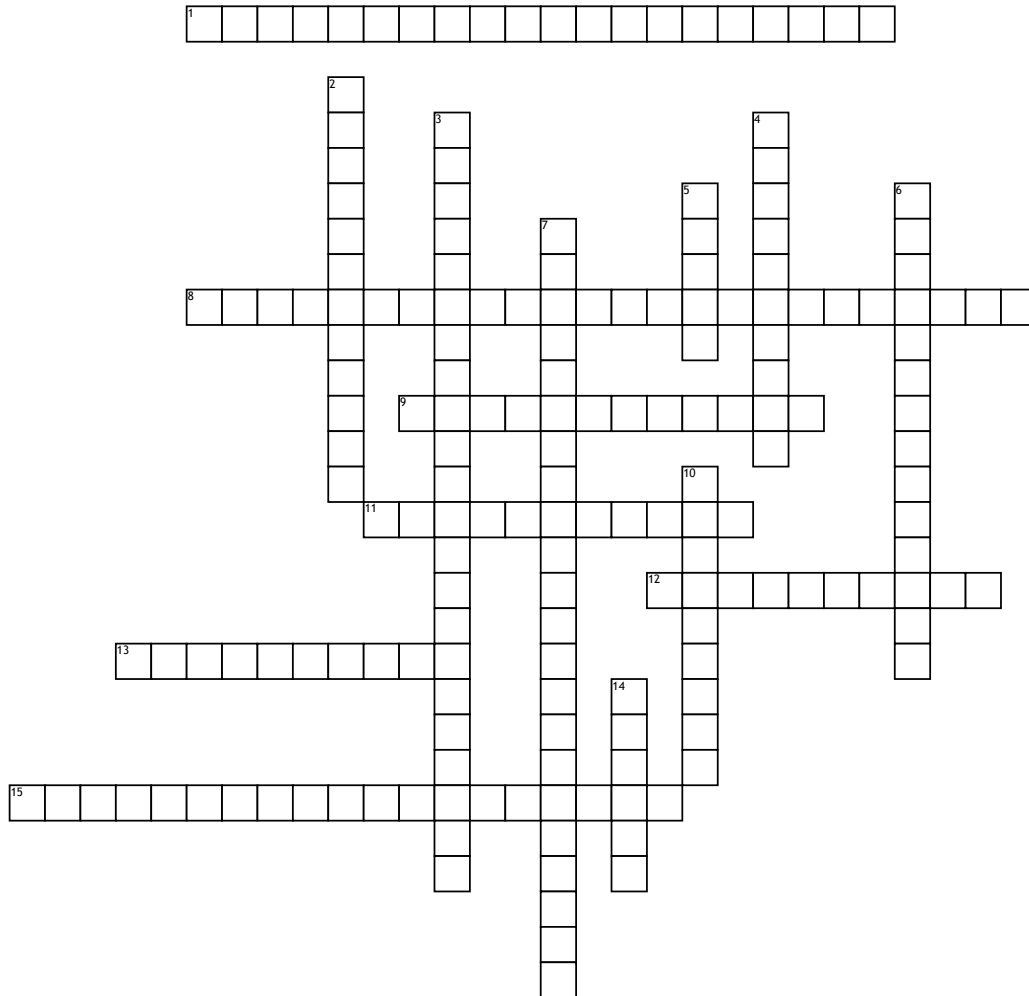


Photosynthesis and Cellular Respiration



Across

1. Photosynthesis Equation
8. The Calvin Cycle forms organic compounds using the stored energy
9. gets energy from food; cannot make energy
11. able to make energy from chemicals
12. convert glucose to pyruvic acid
13. breaks pyruvic acid into a 2-carbon compound to generate energy-storing compounds in the mitochondrion matrix

Word Bank

$6\text{CO}_2 + 6\text{H}_2\text{O} = \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
 Photosynthesis
 glycolysis
 Autotrophs
 thylakoid

15. Complex process where cells break down glucose to make ATP chemical energy

Down

2. All cells are able to synthesize ATP via the process of glycolysis
3. light energy is captured and stored as NADPH, oxygen gas is released
4. able to make energy from light energy
5. stacks of thylakoids

Electron Transport Chain
 Light dependent reaction
 Heterotrophs
 Light independent reaction
 Cellular respiration

6. The process of converting light energy into chemical energy (ATP) within a chloroplast

7. Series of chemical reactions that convert energy into ATP energy in the mitochondria crista

10. flattened discs in the chloroplast where the light dependent reaction occur

14. solution/space inside the thylakoid where the light independent reactions take place

Fermentation
 grana
 Stroma
 chemotrophs
 krebs cycle