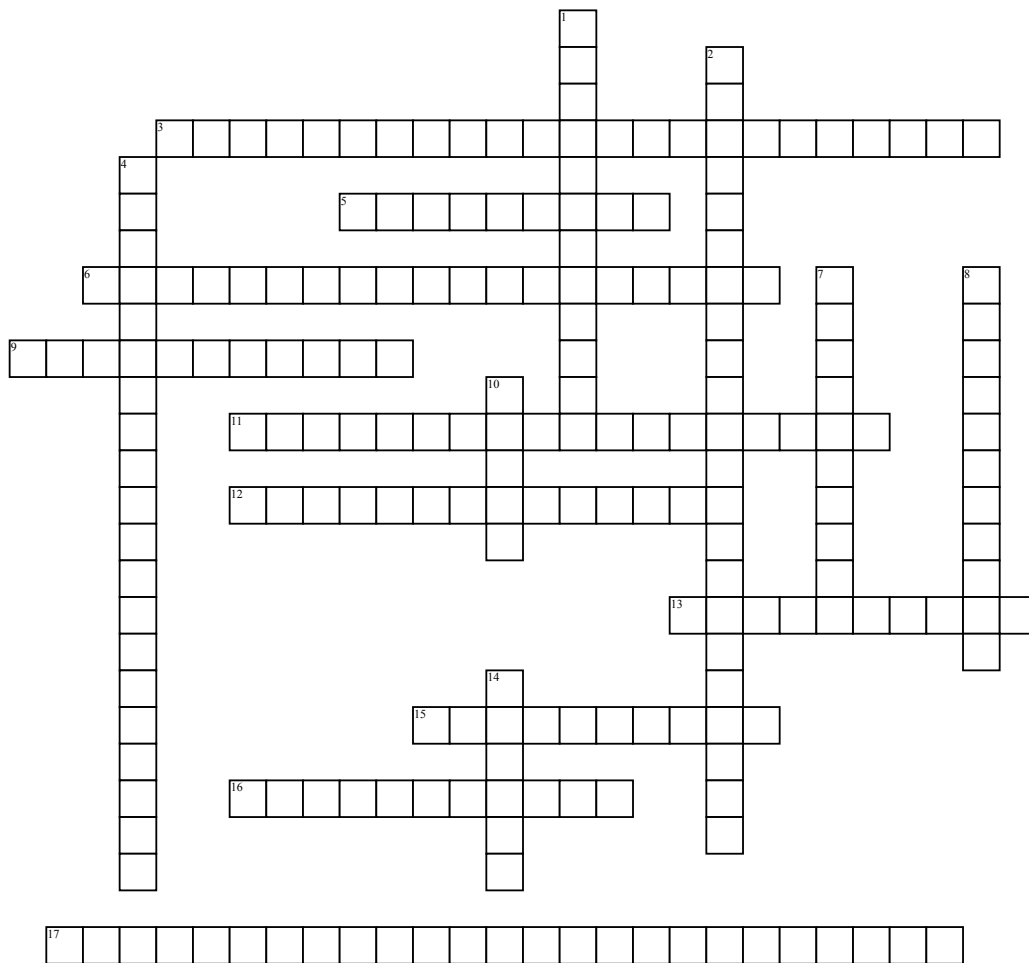


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Photosynthesis and Cellular Respiration Crossword Puzzle



## Across

- 3.** The 1st step of Photosynthesis; Light Energy is captured and stored as NADPH and Oxygen gas is released; requires light
- 5.** Flattened discs where Light-Dependent Reactions occur
- 6.** The process by which cells obtain energy from Carbohydrates; Atmospheric Oxygen combines with Glucose to form Water and Carbon Dioxide
- 9.** The Organelle found in plants and algae cells where Photosynthesis takes place
- 11.** Cannot occur without Oxygen; requires Oxygen
- 12.** The process by which plants, algae, and some bacteria use sunlight, carbon dioxide, and water to produce Carbohydrates and Oxygen

- 13.** A series of biochemical reactions that convert Pyruvic Acid into Carbon Dioxide and Water; it is the major pathway of oxidation for many organisms and it releases energy; 2nd Step of Cellular Respiration
- 15.** Able to make energy from Light Energy (Plants)
- 16.** Able to make energy from Chemicals (Bacteria)
- 17.** The 2nd step of Photosynthesis; Calvin Cycle forms Organic compounds using the stored energy(Glucose)

## Down

- 1.** Obtains energy from food; Cannot make energy (Animals & Humans)

- 2.** Known as ETC, it converts the most energy into ATP for cells; domino effect; Final Step in Cellular Respiration

- 4.** Can occur with or without Oxygen present; Does NOT require Oxygen

- 7.** The anaerobic breakdown of glucose to Pyruvic Acid, which makes a small amount of energy available to cells in the form of ATP; 1st Step of Cellular Respiration

- 8.** A green pigment found in most plant cells; gives plants their green color, reacts with sunlight, carbon dioxide, and water to form Carbohydrates; located in Chloroplast

- 10.** Stacks of Thylakoids

- 14.** The Solution/Space inside the Thylakoid where Light-Independent Reactions occur

## Word Bank

Stroma	Grana	Chemotrophs	Electron Transport Chain
Photosynthesis	Heterotrophs	Cellular Respiration	Autotrophs
Krebs Cycle	Chloroplast	Thylakoid	Light-Dependent Reactions
Aerobic Respiration	Anaerobic Respiration	Light-Independent Reactions	Chlorophyll
Glycolysis			