

**Topic:** Photosynthesis and Cellular Respiration Worksheet – Venn Diagram

**Summary:** Students will fill in the Venn diagram comparing and contrasting the reactants and products of photosynthesis and cellular respiration.

**Goals & Objectives:** Students will be able to compare and contrast photosynthesis and cellular respiration.

**NGSS Standards:** HS-LS1-5: Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy. HS-LS1-7. Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.

**Time Length:** 10 minutes

**Prerequisite Knowledge:** Students know the organelle of plant cells, what is a reactant, and a product of a chemical reaction.

**Materials:**

Class notes or textbook or online textbook:

- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/2.17/primary/lesson/autotrophs-and-heterotrophs-bio/>

**Procedures:**

1. Students work on the handout by themselves.

**Accommodations:** Students with an IEP can take the handout home if they need extra time, or they can do the diagram model questions.

**Editable DOCX File and Answer Key:**

Available at [www.ngsslifescience.com](http://www.ngsslifescience.com)

# Photosynthesis and Cellular Respiration Worksheet – Venn Diagram

1. Compare and contrast photosynthesis and cellular respiration using the Venn diagram below.

Write 4 bullet points in each of the three sections: photosynthesis, cellular respiration, and both.

