

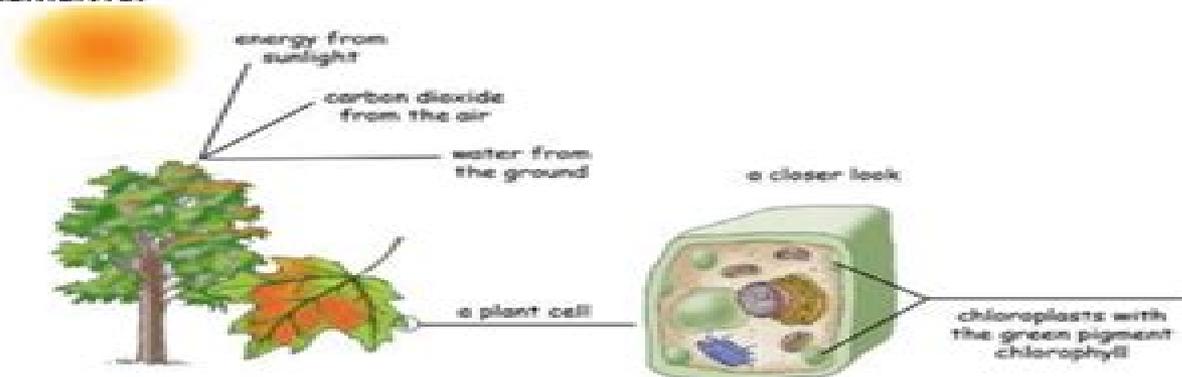
## Photosynthesis Study Guide

### VOCABULARY:

Activation energy ( $E_A$ )	ATP vs. ADP	ATP Synthase*
Autotroph (aka producer)	Calvin Cycle	Carbon dioxide
Central vacuole	Chlorophyll vs. Chloroplast	Endergonic & Exergonic rxns*
Enzymes	Glucose ( $C_6H_{12}O_6$ )	Light reactions
Oxygen	ROYGBIV	Rubisco*
Surface area	Thylakoids	Trophic levels

\*these are the "bonus" challenge terms

### REQUIREMENTS:



### OVERVIEW AND ANATOMY:

- Plants, algae, and photosynthetic bacteria are called \_\_\_\_\_ because they can produce their own organic food. This food not only feeds the producer, but also the other \_\_\_\_\_ levels of the food web.
- During photosynthesis, plants use \_\_\_\_\_ from the sun to convert \_\_\_\_\_ from the air and \_\_\_\_\_ from the soil into the high-energy food molecule \_\_\_\_\_.
- Carbon dioxide enters the plant through pores found on the bottom of \_\_\_\_\_. Water enters the plant through the \_\_\_\_\_, an organ system that is found underground. Both of these organs are spread out and feathery, which maximizes their \_\_\_\_\_ for absorption.
- If you zoom into a plant tissue under the microscope, you can tell that it is made of \_\_\_\_\_ cells because they all have special organelles, a nucleus to store DNA, and the tissue is multicellular. You would also see that water is stored in the \_\_\_\_\_ of each cell. This supplies water for photosynthesis but also helps to hold plants up against \_\_\_\_\_.

# 4 2 Study Guide Overview Of Photosynthesis Worksheet Key

**Wolfgang Guggemos**



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