

Name: _____

Date: _____

Adapted from POGIL - Activities for High School Biology

Partners names: _____

Photosynthesis: What's in a Leaf?

What is the relationship between structure and function in a leaf?

Why?

What would the world be like without leaves—no grass for ball fields, no beautiful landscaping? It would also mean no oxygen for animals and no food for heterotrophs. Leaves are like living machines that recycle the carbon and oxygen in our environment. This process, driven by the sun's energy, allows for a constant supply of oxygen and food for the inhabitants of Earth.

Model 1 – Leaf Sun-Catcher



General Equation for Photosynthesis



1. List **three** things entering the leaf in Model 1.

_____, _____, and _____

2. List **three** substances leaving the leaf.

Pogil Biology Answers Photosynthesis Whats In A Leaf

DP Hallahan



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web sep 8 2023 organelles are small structures within the cytoplasm that carry out functions necessary to maintain homeostasis in the cell they are involved in many processes for example energy production building proteins and secretions destroying toxins and responding to external signals

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web 4 transports materials within the cell vesicles 5 the region inside the cell except for the nucleus cytoplasm 6 organelle that manages or controls all the cell functions in a eukaryotic cell nucleus 7 contains chlorophyll a green pigment that traps energy from sunlight and gives plants their green color chloroplast 8 digests excess or

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