



Academic Notes

TOPIC: _____ Photosynthesis and Melvin Calvin _____

DEFINE Base your definition on: <ul style="list-style-type: none">• what it <i>does</i>• what it <i>is</i>• what it's made from• what it <i>means</i>	Photosynthesis is the process by which plants create carbohydrates and oxygen from carbon dioxide and water, using the energy of sunlight.
SUMMARIZE Be sure that you: <ul style="list-style-type: none">• synthesize different events and information• include only essential events, ideas, or info	The conditions necessary for photosynthesis to take place had been known for nearly two centuries, as had the end products of the process. But the intermediate processes were a mystery. Calvin discovered and explained those processes.
SERIALIZE Be sure to: <ul style="list-style-type: none">• include key events or moments in the sequence• organize events or data to show how one event or action leads to another	
CLASSIFY Be sure to: <ul style="list-style-type: none">• create useful categories into which all info can be organized• establish criteria to use when evaluating and organizing information	Photosynthesis research, science history, scientific research, important figures in science.
COMPARE Be sure to: <ul style="list-style-type: none">• identify and assess key similarities and differences based on:<ul style="list-style-type: none">• importance• behavior• quality• function	The discovery of the photosynthesis process reminds me of the process the Curie's used in the discovery of radiation.
ANALYZE Be sure to: <ul style="list-style-type: none">• consider what the text/ results mean based on critical reading or observation• interpret from multiple perspectives	Calvin was able to discover the intermediate processes by introducing carbon-14 (a good tracer) into a flask containing green algae in suspension. He then used a second technique, paper chromatography, to identify the radioactive tracers. In this technique, a mixture is spread by solvents along a sheet of filter paper.

