

Academic Notes

TOPIC: Photosynthesis and Melvin Calvin

<p>DEFINE</p> <p>Base your definition on:</p> <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> 	<p>Photosynthesis is the process by which plants create carbohydrates and oxygen from carbon dioxide and water, using the energy of sunlight.</p>
<p>SUMMARIZE</p> <p>Be sure that you:</p> <ul style="list-style-type: none"> • synthesize different events and information • include only essential events, ideas, or info 	<p>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.</p>
<p>SERIALIZE</p> <p>Be sure to:</p> <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 	
<p>CLASSIFY</p> <p>Be sure to:</p> <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 	<p>Photosynthesis research, science history, scientific research, important figures in science.</p>
<p>COMPARE</p> <p>Be sure to:</p> <ul style="list-style-type: none"> • identify and assess key similarities and differences based on: • importance • behavior • quality • function 	<p>The discovery of the photosynthesis process reminds me of the process the Curie's used in the discovery of radiation.</p>
<p>ANALYZE</p> <p>Be sure to:</p> <ul style="list-style-type: none"> • consider what the text/ results mean based on critical reading or observation • interpret from multiple perspectives 	<p>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.</p>

