

Science KS3 Assessment Framework

	Beginning Grade 1	Working Towards Grade 2-3	Expected Grade 4-5	Exceeding Grade 6-7	Excelling Grade 8-9
Photosynthesis	<p>I can:</p> <p>State where photosynthesis occurs in a plant.</p> <p>State the function of the chloroplasts in a leaf.</p>	<p>I can:</p> <p>State the products of photosynthesis.</p> <p>Name the main structures of a leaf.</p> <p>Name the minerals required by plants.</p> <p>Describe the process of photosynthesis.</p> <p>Explain the importance of photosynthesis in the food chain.</p> <p>Explain how the plant obtains the reactants for photosynthesis.</p>	<p>I can:</p> <p>State the word equation for photosynthesis.</p> <p>Describe the structure and function of the main components of a leaf.</p> <p>Carry out an experiment to test for the presence of starch in a leaf.</p> <p>Describe how a plant uses minerals for healthy growth.</p> <p>Record measurements of plant growth.</p> <p>Explain the role of chloroplasts in photosynthesis.</p> <p>List the factors that affect the rate of photosynthesis.</p>	<p>I can:</p> <p>Explain the distribution of the chloroplasts in a leaf.</p> <p>Explain how the structures of the leaf make it well adapted for photosynthesis.</p> <p>State the relationship between temperature, light intensity, and availability of carbon dioxide and the rate of photosynthesis.</p> <p>Make observations of stomata from the underside of the leaf, and record observations as a labelled diagram.</p> <p>Explain deficiency symptoms in plants.</p>	<p>I can:</p> <p>Record measurements in a table, and calculate arithmetic means of results, giving answers to the correct number of significant figures.</p> <p>Explain how proteins are made for plant growth.</p> <p>Describe why low temperature, shortage of carbon dioxide, and shortage of light limit the rate of photosynthesis.</p>