



Year: 9

Subject: BIOLOGY

Topic: Photosynthesis

Knowledge and Understanding to be developed:

Pupils should use and develop their skills, knowledge and understanding by investigating the science involved in a range of contemporary devices/machines and evaluate different energy resources and possibilities.

Homework:

Work through
Photosynthesis booklet

Lessons	Skills/practicals
Lesson 1 and 2 : Reactions in plants	
<p>To know what is needed and produced in photosynthesis</p> <p>to recall the word equations for photosynthesis</p> <p>To investigate photosynthesis</p>	<p>Construct and interpret graphs 9D4 Use a wide range of technical terms, language expression consistent with subject knowledge Language 9.WL2</p>
Lesson 3 and 4 Plant adaptations	
<p>To learn the parts of the plant to include specialized cells and stomata</p> <p>To investigate the rate at which coloured water moves up celery stalks with and without leaves.</p>	
Lesson 4 Growing crops	
<p>To investigate the impact of using fertilisers on crops</p> <p>(to be revisited in two weeks)</p>	<p>Construct and interpret graphs 9D4 Use a wide range of technical terms, language expression consistent with subject knowledge Language 9.WL2</p>
Lesson 5 The Carbon Cycle	
<p>Pupils can label a carbon cycle</p> <p>Pupils can describe how photosynthesis and respiration have worked over millions of years to keep the level of CO₂ constant</p> <p>Pupils can explain how human activity has effected the balance and increased the CO₂.</p> <p>Pupils can describe the effect of increased CO₂ and describe how global warming occurs.</p>	