

## Year 9 Biology

Name: \_\_\_\_\_

<b>Sept - Dec</b>	<ul style="list-style-type: none"><li>• Plant structure</li><li>• Plant reproduction for food security</li><li>• Practical - How light intensity effects the rate of photosynthesis</li><li>• Leaf structure</li><li>• Stomata</li><li>• Transport in plants</li><li>• (Saving water – plant adaptations)</li><li>• Uses of glucose and the dependence of other organisms on plants</li><li>• Storing starch and testing for the presence of starch.</li><li>• Deforestation</li><li>• Fertilisers – Extension work</li><li>• <b>Test 1 – Plants and photosynthesis</b></li></ul>
<b>Jan - Feb</b>	<ul style="list-style-type: none"><li>• Use of Microscopes</li><li>• Plant and animal cells – structure at GCSE</li><li>• Drawing cells</li><li>• Specialised cells</li></ul>
<b>Feb - March</b>	<ul style="list-style-type: none"><li>• Specialised cells biological drawings</li><li>• Inside bacteria</li><li>• Microscopes Light Vs Electron + converting SI units</li><li>• Magnification calculations</li><li>• <b>Test 2 – Cells and microscopy</b></li></ul>
<b>April - May</b>	<ul style="list-style-type: none"><li>• Enzyme mechanism</li><li>• Factors that affect enzyme action – Substrate concentration</li><li>• Factors that affect enzymes – pH</li><li>• Factors that affect enzymes – Temperature</li></ul>
<b>June – July</b>	<ul style="list-style-type: none"><li>• Enzymes and nutrition</li><li>• <b>Test 3 – End of year tests</b></li><li>• Transport into and out of cells - Diffusion</li><li>• Transport in cells – Osmosis</li><li>• Investigating osmosis</li><li>• Transport in cells – Active Transport</li></ul>
Test 1 (January 2025) – term one topics (Sept – Dec)	
Test 2 (March 2025) – term two topics (Jan – March)	
Test 3 (summer 2025) – End of year test covering all content	