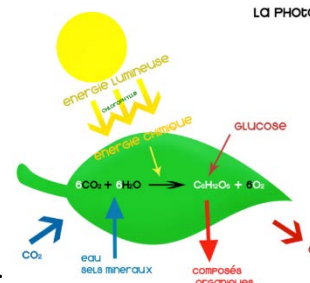


**Unit Overview – Bioenergetics**

**Target grade for tests: .....**

**You will learn about:**

- How plants photosynthesise and what limits this process
- The process of respiration and what happens if there isn't enough oxygen.



**You will be able to:**

- Measure the effects of light on pond weed

Key learning points		Key Words
Photosynthesis		
Limiting factors		
Uses of glucose		
Aerobic respiration		
Anaerobic respiration		
Response to exercise		
Metabolism		
<p><b>Links to other subjects:</b></p> <p>SMSC</p> <ul style="list-style-type: none"> <li>• Evaluate risk both in practical science and the wider context, including perception of risk in relation to data and consequences.</li> <li>• Evaluate every day and technological applications of science.</li> </ul> <p>Literacy</p> <ul style="list-style-type: none"> <li>• Communicating the scientific rationale for investigations, methods used, findings and reasoned conclusions through paper-based and electronic reports and presentations using verbal, diagrammatic, graphical, numerical and symbolic forms.</li> </ul> <p>Numeracy</p> <ul style="list-style-type: none"> <li>• Translate information between graphical and numeric form</li> <li>• Recognise and use expressions in decimal form</li> <li>• Use an appropriate number of significant figures.</li> </ul>		<p>Chlorophyll, epidermal tissues, palisade mesophyll, spongy mesophyll, vascular bundle, light intensity, limiting factor, concentration gradient, diffusion, flaccid, guard cell, transpiration, turgid, xylem, phloem, aerobic respiration, anaerobic respiration, fermentation</p>