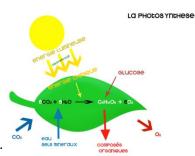
Unit Overview – Bioenergetics

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	
Photosynthesis	
Limiting factors	
Uses of glucose	
Aerobic respiration	
Anaerobic respiration	
Response to exercise	
Metabolism	

Links to other subjects:

SMSC

- Evaluate risk both in practical science and the wider context, including perception of risk in relation to data and consequences.
- Evaluate every day and technological applications of science.

Literacy

• 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.

Numeracy

- Translate information between graphical and numeric form
- Recognise and use expressions in decimal form
- Use an appropriate number of significant figures.

Key Words

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