

Photosynthesis - Students will explore the process of photosynthesis referring to the word equations. Students will discover the structures within plants which allow photosynthesis to occur.
Energy Costs and Transfers - Students will be able to describe how the cost of electricity is calculated and explain how electricity can be obtained from renewable and non-renewable sources.

Home Learning:
 Look-cover-write-check one knowledge organiser page every week. Ensure the content on the knowledge organiser is learnt in preparation for a quiz given by your classroom teacher.

- Key Questions:** (A list of key questions)
- Photosynthesis**
- What is photosynthesis?
 - What is required and produced by photosynthesis?
 - What is the word equation for photosynthesis?
 - How do the reactants get into the plant?
 - How do the products leave the plant?
- Energy Costs and Transfers**
- How is energy transferred by devices?
 - How do we calculate the energy a device uses during its transfer?
 - What additional costs do electricity companies supply?
 - How do we find the cost of electricity?

- Diagnosis
& Smith Proforma**
- Recall Quiz from knowledge organisers
 - Completion of 'assessed tasks' (forces – weight a minute, matter – burning magnesium)
 - Feedback from teachers marking

- Therapy**
- DIRT lesson – Respond to teachers marking.

- Students will:** (Success Criteria)
- Photosynthesis**
- Describe the process of photosynthesis
 - Give the word equation of photosynthesis
 - Explain how reactants enter the plants and products leave the plant.
- Energy Costs and Transfers**
- Describe energy transfers for a range of applications or devices.
 - Calculate energy transferred to a device.
 - Calculate the number of units on an electricity meter between two time periods
 - Calculate the total cost of electricity including standing charge.

- Testing**
- Final end of topic test after each topic