

Science (Year 8)



Photosynthesis

Describe how species are adapted to suit their environment. Describe the theory of natural selection and how this can lead to extinction



Raw Materials

Identify raw materials and link properties to use

June End of year exam Assessment of all learning since September

Electricity

Current and **potential difference** behaviour in series and parallel circuits
How to **measure** current and potential difference

Further Reactions

Describe and write equations for the following types of reaction:
Oxidation, Combustion, Thermal decomposition and displacement

Waves: Sound

Describe waves being longitudinal or transverse
Interpret sound waves
Calculate speed of sound and echo's

Photosynthesis

Describe the structure of a leaf and how this supports photosynthesis.
Investigate light intensity



January Progress test 1 Assessment of all learning since September

Speed

Describe distance time graphs.
Calculate speed using a range of data

The Periodic Table of the Elements

Periodic Table

Describe how the periodic table is arranged.
Compare the properties of metals and non-metals

Pressure

Calculate Pressure by rearranging an equation and converting units. Describe changes in pressure in the atmosphere and in liquids

Respiration

Describe the structure of the lungs, investigate aerobic and an aerobic respiration

Reactions

Investigate temperature changes and identify reactions as **endothermic** or **exothermic**.
Describe how catalysts affect rate of reaction



Waves: Light

Describe waves being longitudinal or transverse
Describe the spectrum of light
Draw ray diagrams
Describe the spectrum of light
Draw ray diagrams



Atom

Describe the structure of an atom, calculate numbers of protons, neutrons and electrons. **Apply** conservation of mass to equations.



Food and Digestion

Identify the nutrients found in food
Describe the role of organs in the digestive system
Describe the role of enzymes



Year 7 Retrieval

Review understanding of the 5 key ideas that support all science learning: Cells, Interdependence, Particles, Energy and Forces