

# Science (Year 8)

## Curriculum Map 2025-2026



### 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

### 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