

# To Year 9



End of year exam

Revisit and revise

**12. inheritance Focusing on:**

- Variation in species occurs due to inherited and environmental characteristics.

**10. Metals and acids Focusing on:**

- The properties of a variety of metals and non-metals,
- Different acidic reactions with metals, metal carbonates and metal oxides
- Represent elements by symbols and compounds by formulae



**13. The Earth Focusing on:**

- The structure of the Earth and its atmosphere.
- How rock-forming processes are linked by the rock cycle

**11. Motion and pressure Focusing on:**

- The relationship between forces on an object and its movement
- Measure and calculate the speed of objects in a range of situations.
- Know that pressure is caused by the molecules colliding with something.

**9. Ecosystem and Adaptation processes Focusing on:**

- The importance of the processes photosynthesis and respiration on food chains and ecological habitats.
- Examination of habitats to learn how: organisms can be identified, and sizes of populations compared
- To know organisms adapt to environmental changes in order

**8. Energy Focusing on:**

- Energy in the context of fuels
- The nature and origin of fossil fuels and renewable energy sources
- The transfer of energy and temperature



**5. Electricity and magnetism Focusing on:**

- Associate the concept of voltage with the transfer of energy in a circuit
- Investigate the effect of resistance
- Magnetism, magnetic fields and electromagnets

**6. Biological processes Focusing on:**

- Photosynthesis
- Aerobic respiration
- Anaerobic respiration

**7. Separation techniques Focusing on:**

- Separation of the components of a solution and relate this to particle theory
- Separation techniques such as, filtration, evaporation, distillation and chromatography

**4. Periodic table Focusing on:**

- Classifying elements based on patterns and properties.
- Using patterns in the periodic table to predict properties

**3. Health and Lifestyle Focusing on:**

- The main components of food and their tests.
- Health effects of lifestyle choices
- Digestive system and enzymes

**2. Working Scientifically 2 focusing on:**

- Planning investigations
- Presenting and analysing data
- Communicating scientific information

**1. Acids and alkalis Focusing on:**

- acids and alkalis as classes of chemicals with distinct properties and uses
- indicators to classify solutions as acidic, alkaline or neutral
- the pH scale to compare the acidity and alkalinity of different solutions
- begin to explore neutralisation



# Year 8 Science

From year 7