

Curriculum overview Science

Key Stage 3

Completing an evaluation.		
Motion and forces	Compounds, elements and the periodic table	Organ systems
 Key learning: Speed & distance time graphs. Balanced & unbalanced forces. Non-contact forces. Pressure in liquids & gases. Moments. Respiration and evolution Key learning: Variation within species. Chromosomes, genes and DNA in heredity. Watson, Crick, Wilkins and Franklin's DNA model. Natural selection. Extinction. Maintaining biodiversity. Aerobic and anaerobic respiration. Fermentation. Practical skills Key learning: Writing a hypothesis. Planning an experiment. Writing a risk assessment. Preparing a results table. Collecting data. Graphs and trends. 	 Key learning: Atoms and elements. Chemical symbols and formulae. The periodic table. Compounds. Properties of metals. The reactivity series and displacement reactions. Extracting metals. Properties of non-metals and other materials. Waves Key learning: Sound waves. The human ear and hearing. Echoes and ultrasound. Light waves. Reflection and refraction of light. Colour. 	 Key learning: Skeletons and muscles. Gas exchange system and breathing. Asthma. Smoking and drugs. Digestive system. Balanced diet. Malnutrition. The Earth and atmosphere Key learning: Structure of the earth. Types of rock. Weathering and the rock cycle. Composition of the atmosphere. Earth's resources. Recycling.