
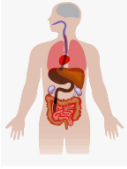
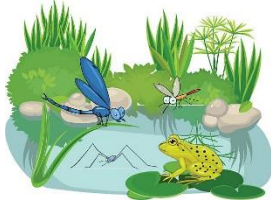
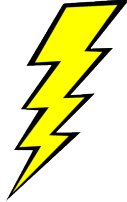




Key Stage 3 Outline Plan

Year 7 2020-2021

The KS3 curriculum in Science is linked to Technology and Maths wherever possible to enable students to apply knowledge obtained in one subject to work being carried out in another. The idea of a STEM curriculum is very important in developing cross-curricular links and soft skills that will help students develop in all of their studies, not just in Science.

Topic	Key words	Working Scientifically links
 <p>Chemistry in Detail Featuring: The particle model; Atoms, Elements & Compounds; Combustion</p>	States of Matter Brownian Motion Diffusion Elements Compounds Chemical Reactions Oxidation Pollution	Writing hypotheses Using Data Fair tests
<p>Biology in Detail Featuring: Cells, tissues, organs and systems; Food and nutrition; Breathing and respiration</p>	 Life Processes Nutrients Digestion Aerobic Respiration Gas Exchange Anaerobic Respiration	Using Microscopes Surface Area Means and Ranges
 <p>Biology in Action: Featuring: Sexual reproduction in animals; Muscles and bones; Ecosystems</p>	Fertilisation Gestation Gas exchange Circulation Variation Adaptation Environment	The Scientific Method Scientific Questions Charts and Graphs
<p>Physics in Detail: Featuring: Energy; Current electricity; Forces</p>	 Transfers Stores Resources Current Series and Parallel Friction Pressure	Fair Comparisons Models in Science SI units
 <p>Physics in Action: Featuring: Sound; Fluids; Light</p>	Pressure waves Energy transfer Particles Density Drag Reflection Refraction	Line graphs Scatter graphs Calculations with density Drawings and conventions
<p>Chemistry in Action: Featuring: Mixtures and separation; Acids and alkalis; Metals and their uses</p>	 Solution Evaporation Chromatography Distillation Indicators Neutralisation Corrosion Reactivity Alloys	Safety when heating Controlling risk Quality Evidence