

SCIENCE CURRICULUM: KS3

Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



Procedural knowledge is developed throughout the curriculum, with students being given the opportunity to plan and carry out investigations using a range of laboratory equipment.

A test will follow after each pair of units. E.g. after P1.1 and P1.2. This will include multiple choice questions and a skill question. These are highlighted on the document with a *.

Further Support:

Textbook - Pearson Exploring Science Years 7, 8 and 9 books (if you feel your child needs support with certain chapters, please contact their teacher or Mrs Burns and they can send you the relevant pages).

BBC Bitesize has some excellent resources to support your child's learning:

<https://www.bbc.co.uk/bitesize/levels/z4kw2hv>

	Autumn Term	Spring Term	Summer Term
Year 7	Physics: P1.1 Energy Physics: P1.2 Current and Electricity* Biology: B1.1 Cells, Tissues, Organs and Systems Biology: B1.2 Sexual Reproduction in Animals*	Chemistry: C1.1 Mixtures and Separation Chemistry: C1.2 Acids and Alkalis* Biology: B2.1 Muscles and Bones	Biology: B2.2 Ecosystems* Chemistry: C2.1 The Particle Model Chemistry: C2.2 Atoms, Elements and Compounds*
Year 8	Chemistry: C2.1 The Particle Model Chemistry: C2.2 Atoms, Elements and Compounds* Physics: P2.1 Forces Physics: P2.2 Sound*	Physics: P3.1 Fluids Physics: P3.2 Light* Biology: B3.1 Food and Nutrition	Biology: B3.2 Plants and their Reproduction* Chemistry: C3.1 Combustion Chemistry: C3.2 The Periodic Table*
Year 9	Biology: B3.1 Food and Nutrition Biology: B3.2 Plants and their Reproduction* Chemistry: C3.1 Combustion Chemistry: : C3.2 The Periodic Table*	Physics P4.1 Energy Transfers Physics: P4.2 Earth and Space* Biology: B4.1 Breathing and Respiration	Biology: B4.2 Unicellular Organisms* Chemistry: C4.1 Metals and their Uses Chemistry: C4.2 Rocks*

Who to contact regarding KS3 Science:

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