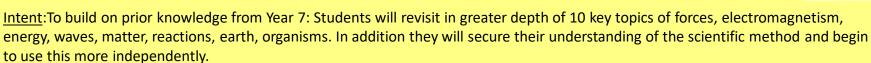
Mastery: Introduce: Analyse Communicate Evaluate Solve

Key Stage 2 Curriculum

Asking questions
Making predictions
Setting up tests
Observing & Measuring
Recording data
erpreting & communicating
results

Sandbach School Science Curriculum:

Year 8 Science Curriculum Sequence





g & communicating results					
8A Food & Nutrition 8E Combustion	HT2 8I Fluids 8B plant reproduction 8H rocks	HT3 8F Periodic table 8C Breathing & respiration	HT4 8K Energy transfer 8D Unicellular organisms	HT5 8L Earth & Space 8G - Metals	HT6 9A Genetics & evolution 9E – Making materials
Why teach, combustion and food & nutrition here?	Why teach Fluids & plant reproduction here?	Why teach Periodic table an Breathing & respiration here?	Why teach energy transfers, unicellular?	Why teach earth & Space and metals here?	Why teach earth & Space and genetics & evolution here?
This follows on with combustion later in this term Food and nutrition follows on from cells tissues and organism and links to respiration.	Teaching these modules here is a link to forces in Y7 and forces and motion in year 9. The plant reproduction allows students to move from animal reproduction in year 7 and hormones in year 10. Rocks follows on from Atoms in year & and provides a baseline for more indepth study later in geography	Periodic table links the topics of atoms and elements in year 7 with the Year 9 topics of atoms elements and compounds. The breathing and respiration links to cells and organisms in year 7	Energy transfers provides a link between energy in Y7 and the K54 energy topic in year 9. Unicellular organism provides a bridge between a variety of topics in year 7 and the energy transfers topics in year 9	Earth and space feeds from Y7 forces and links to the forces and motion topics in year 9. A good group here supports calculations in KS4 and maths. Metals links nicely here with 8F periodic table and following on to 8E making materials year 9 atoms and bonding topics	Genetics and evolution links ecosystems in 7 and Y11 evolution and inheritance topics good understanding of this will allow progr to KS5. 9E follows on from 8 G metals and reaction also will link with Y10 topics of crude oil, structure and bonding
National Curriculum Links Pupils will:	National Curriculum Links Pupils will: Understand pressure in liquids, increasing with depth; upthrust effects, floating and sinking Explain Reproduction in plants, including flower structure, wind and insect pollination, fertilisation, seed and fruit formation.	National Curriculum Links Pupils will: Understand the principles underpinning the Mendeleev periodic table how patterns in reactions can be predicted with reference to the periodic table. the process of anaerobic respiration in humans and micro-organisms, including fermentation, and a word summary for anaerobic respiration	National Curriculum Links Pupils will: Processes that involve energy transfer: changing motion, dropping an object, completing an electrical circuit, stretching a spring, metabolism of food, burning fuels. the role of diffusion in the movement of materials in and between cells the structural adaptations of some unicellular organisms	National Curriculum Links Pupils will: our sun as a star, other stars in our galaxy, other galaxies the seasons and the Earth's tilt, day length at different times of year, in different hemispheres Calculations of gravitational force on earth and other celestial bodies. Identify metas and describe there properties Describe chemical reactions Balance symbol equations	National Curriculum Links Pupils will: Variation between organisms, meanir some organisms compete more successfully, which can drive natural selection Describe ceramics and polymers and uses. Evaluate the uses of polymers and composite materials. Explain the problems with different materials in the real world
Teaching , combustion and food & nutrition here supports: 9 E making materials Y9 Organisation. Y10 carbon cycle Y10 earth and atmospheric Science Physical geography rocks	Teaching teach Fluids & plant reproduction here supports: • Y9 forces and density • Y10 hormones • Y11 genetics • PSHCE relationships	Teaching Periodic table an Breathing & respiration here supports: GCSE PE respiration Y10 bionenergetics C2 periodic table Y10 KS5 Organisms exchange with the environment	Teaching energy transfers, unicellular & here supports: Y9 Energy transfers Y10 Immunity Y10 cell and organsism	Teaching earth & Space and metals here supports: Y9 forces and motion Y11 waves. Y9 – periodic table	Teaching genetics & evolution & making materials supports: Y11 inheritance KSS evolution Y9 structure and bonding Y10 crude Oil
combustion and food & nutrition feeds from: KS2: Understanding range of texts KS2: Thematic links crime and Detection in Y7 KS3 Cooking & Nutrition	Fluids & plant, reproduction and rocks feeds from: Y7 particles Y7 animal reproduction Geography land use in Project	Periodic table an Breathing & respiration feed from: Y7 atoms elements and compounds Y7 mixtures and separation Y8 food and nutrition	Energy transfers, unicellular & rocks feeds from: Y7 energy Y7 cells and organism	Earth & space and metals feeds from: • Year 7 forces • K52 – space • Y7 Atoms, elements & compounds • 87 periodic table	Earth & Space and genetics & evolution feeds from Year 7 forces Year 7 reproduction Year 7 cells and organisms