Science

Curriculum Map

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
7	**Curriculum Topics:** **Particles (E,A,C)** **Cells**	**Curriculum Topics:** **Energy** **Acids and Alkalis**	**Curriculum Topics:** **Digestion** **Heating & Cooling**	**Curriculum Topics:** **Chemical Reactions** **Reproduction**	**Curriculum Topics:** **Forces**	**Curriculum Topics:** **Space**
	Links with previous topics: Links from KS2: Science Investigation Vocabulary. Plants and Animals. Cells are the building blocks of living things. Links from KS2: Materials, States of Matter. Particles are the building blocks of matter.	**Links with previous topics:** Links from KS2: Light and Sound Particles. Links from KS2: Science Investigation Vocabulary	**Links with previous topics:** Links from KS2: Living Things, Animals, Cells Energy Links from KS2: Science Investigation Vocabulary	**Links with previous topics:** Cells used in reproduction. Links from KS2: Evolution and Inheritance Links from KS2: Science Investigation Vocabulary	**Links with previous topics:** Links from KS2: Forces (gravity, air resistance and friction) Light Links from KS2: Science Investigation Vocabulary	**Links with previous topics:** Links from KS2: Earth and Space. Forces Links from KS2: Science Investigation Vocabulary

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8	**Curriculum Topics:** **Respiration and Movement** **Periodic Table**	**Curriculum Topics:** **Waves** **Genes**	**Curriculum Topics:** **Metals and Reactivity** **Electricity & Magnets**	**Curriculum Topics:** **Rocks**	**Curriculum Topics:** **Forces and Pressure**	**Curriculum Topics:** **Plants and Ecosystems**
	Links with previous topics: Cells, tissues, organs. Y7 Particles, Chemical Reactions, Conservation of mass Science Investigations.	**Links with previous topics:** Links from KS2: Evolution and Inheritance Y7 Forms of Energy, Energy Conservation Y7 Cells Science Investigations.	**Links with previous topics:** Periodic Table Links with KS2: Electricity and Magnets Science Investigations.	**Links with previous topics:** Links from KS2: Fossils Y7 Energy, Heating and Cooling, Particles Science Investigations.	**Links with previous topics:** Y7 Forces-Balanced and Unbalanced Forces, Chemical Reactions How Science works, development of scientific ideas Science Investigations.	**Links with previous topics:** Y7 Cells, Tissues, Organs, Organ Systems End of Year Assessment – Links with all. Science Investigations.

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9	**Curriculum Topics:** **Atoms (Inc History of the Atom)** **Electromagnetic Spectrum**	**Curriculum Topics:** **Cellular Reactions** **Electrical Circuits**	**Curriculum Topics:** **Rates of Reaction**	**Curriculum Topics:** **Electricity in the Home**	**Curriculum Topics:** **Atmosphere and Resources**	**Curriculum Topics:** **Ecology**
	Links with previous topics: Waves carry energy, types of wave and structure. (Waves) Explaining chemical reactions. Periodic table structure. (Yr 8 Chem) How Science works, development of scientific ideas (History of the Atom) Science Investigations.	**Links with previous topics:** Cells, Tissues, Organs, Organ Systems. (Yr 7/8 Biology) Respiration, Photosynthesis (Yr 7/8 Biology) Complete circuits, circuit symbols, series and parallel (Elec and Mag Y8) Science Investigations.	**Links with previous topics:** Conservation of Mass, temperature, concentration, pressure, states of matter. Science Investigations.	**Links with previous topics:** Complete circuit, from Yr7 Sustainability and Resources. Energy conservation and efficiency. Science Investigations.	**Links with previous topics:** Sustainability and Resources Energy conservation and efficiency. Science Investigations.	**Links with previous topics:** Conservation of Energy. Sustainability and Resources Cells Tissues, Organs, Organ Systems. Respiration, Photosynthesis EoY Ass – Links with all. Science Investigations.

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10	**Curriculum Topics:** **Matter and Energy** **Ecology**	**Curriculum Topics:** **Resources** **Organisation (Cell Division and Transport)**	**Curriculum Topics:** **Bonding and Structure** **Disease**	**Curriculum Topics:** **Chemical Changes** **Inheritance & Variation**	**Curriculum Topics:** **Organic Chemistry** **Radioactivity**	**Curriculum Topics:** **Chemical Analysis** **Forces**
	Links with previous topics: Conservation of Energy. & Forms of energy (Energy) Yr8 Plants and Ecosystems Sustainability Science Investigations	**Links with previous topics:** Sustainability and Resources Yr8 Respiration Yr7 Digestion Respiration, Photosynthesis Science Investigations	**Links with previous topics:** Atoms structure from Yr9 Atoms. Conservation of Mass, concentration, Y9 Rates) periodic table (Atoms) Yr10 Disease Science Investigations	**Links with previous topics:** Conservation of Mass, concentration, Y9 Rates) Atom structure and periodic table (Atoms) Genes Yr 8 Yr 9 Cells Science Investigations	**Links with previous topics:** Conservation of Mass, Yr10 Bonding and structure Atom structure and periodic table (Atoms) Yr 10 Energy Science Investigations	**Links with previous topics:** Atom structure and periodic table (Atoms) Yr10 Energy Yr7 and 8 Forces Science Investigations

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11	**Curriculum Topics:** **Motion** **Chemical Analysis**	**Curriculum Topics:** **PPE** **Homeostasis**	**Curriculum Topics:** **Electromagnetism** **Organic Chemistry**	**Curriculum Topics:** **Waves for Triples (lenses)**	**Curriculum Topics:** GCSEs	**Curriculum Topics:** Links with A Level Sciences
	Links with previous topics: How balanced and unbalanced forces effect motion Forces (Yr10) Conservation of Mass, concentration, Y9 Rates) Atom structure and periodic table (Yr9 Atoms)	**Links with previous topics:** Cells Tissues, Organs, Organ Systems.	**Links with previous topics:** Current flow –(Electrical Circuits Yr9) Law of Magnetism and Mag Fields - Magnetism (Elec Mag Yr 8) Conservation of Mass, concentration, Y9 Rates) Atom structure and periodic table (Yr9 Atoms)	**Links with previous topics:** How light travels – refraction/reflection, heat transfer by radiation - Yr9 Elec Magnetic Spectrum.	**Links with previous topics:** **All**	**Links with future topics:** GCSE Biology links with A Level Biology and A Level Psychology GCSE Chemistry links with A Level Chemistry GCSE Physics links with A Level Physics