			<u>Science:</u> <u>All-Through</u> <u>Curriculum</u>			
Year	T1	T2	T3	T4	T5	T6
EYFS	Animals, including humans (B1) Dental Hygiene My Body	Seasonal Changes (B4, C2) Observe changes in seasons (Autumn)	Materials (C1, S2) Properties of basic materials (houses) Seasonal Changes (B4, C2) Observe changes	Plants (B1) Planting and Growing Animals, including humans (B4) Animal Habitats	Animals, including humans (B1, B4) Lifecycles (Butterfly) Living and non-living	Materials (C1, S2) Sinking and floating Seasonal Changes (B4, C2) Observe changes in seasons (Sumer)
		Dark (C2) Day and night	in seasons (Winter)	Seasonal Changes (B4, C2) Observe changes in seasons (Spring)		
1	Animals, including humans (B4) Carnivores, herbivores and omnivores (dinosaurs) Fossils	Seasonal Changes (B4, C2) Observe changes Weather and day length Deciduous and evergreen	Plants (B1) Basic structure of a plant Animals, including humans (B1, B4) Classifying and compare animals and look at their features	Material Properties (C1, S2) Identify and compare properties of materials		Animals including humans (B1) Identify, name and draw parts of human body
2	The Earth and Beyond Earth, space C2, P4	The Earth and Beyond Earth, space C2, P4	Materials, Properties and Changes Materials C1, S2	Materials, Properties and Changes Materials C1, S2	Living things and their habitats/Animals(including humans) Animals and humans B1,B4	Living things and their habitats/Animals/Plants Animals, humans and plants B1,B4
3	Rocks and Fossils (C2) Types of rocks, properties, formation	Light and dark (P2) Reflections, shadows,	Animals including humans (B1 & B4) Nutrition, skeletons and muscles	Plants (B1 & B4) Functions of a plant, requirements for life and growth	Forces (P1) Movement, friction, magnetic attraction, repel, magnetic poles, materials	Plants (B4) Plant life cycle Light and dark (P2) sun safety
4	Sound (P1,B1) How sounds travels	States of Matter (C1) Solids, liquids and gas	Animals including Humans (B1 & B4) Digestion	Electricity (P2) Building circuits	Plants (B1, B4) Functions of a plant, requirements for life and growth	Living things and their habitat B3, B4) Classification Environments Habitats
5	Working scientifically (S1, S2, S3)	Light (S2, P2)	Forces (S2, P2)	Properties of materials (S2, C1)	Living things and their habitats (B1, B3)	Animals including humans (B1, B2, B4)
6	Animals including humans (S2, B1, B4)	Earth and Space (P4)	Material changes (S2, C1, C4, C5)	Evolution and inheritance (B1, B2)	Living things and their habitats (B1, B3, B4)	Electricity (S2, P2)
7	7C1 – Meteo	rite Impact (C1,	1, B4, S1, S2, S3) P2, S1, S3, C4, C5) , P3, P4, C2, S1, S2)	7P2	7B2 – The Human Body (B1 7C2 – Making Crystals (C1, – Heat, Light and Sound (P1,	C5, S2)

8	8B1 – Reproduction and Genetics (B4, B1, B2, S1,S2, S3) 8C1 – How Chemistry Changed the World (C1,			8B2 – Repopulating a Planet (B1, B3, B4, S1, S2, S3) 8C2 – Colonising a New Planet (C2, C2, C5, S1, S2, S3) 8P2 – Escape From Treasure Island (P1, P3, C1, S1, S2)		
	C4, C5, S1, S2) 8P1 – Electricity and Magnetisn		52)	0. 2 255aps casa. c. is.a.i.a (i. 2), i. 6), c2, c2, c3, c3		, ,,,,,,,,
9	B1 – Cells, Enzymes and Transport (B1, B4, S1, S2)	C1 – States and Separation (C1, S1, S2) P1 – Motion (P1, P3, S1, S2)	B2 – Growth, stem cells and nerves (B1, B4, S1, S3)	C2 – Atoms and Periodic Table (C1, C4) P – Conservation of Energy (P2, S1, S2)	C3 – Structure and Bonding (C1, C4, S1, S2)	P – Waves (P2, P3, S1, S2)
10	B3 – Genes and DNA (B1, B2, B3, B4, S1, S1, S3) C4 – Rates, Energetics And Groups (C1, C4, C5, P2, S1, S2)	P – Forces B4 – Evolution, Selective Breeding And Genetic Modification (B1, B3, S1, S2, S3)	C5 – Fuels and the Atmosphere (C2, C3, C5, S1, P2, S2, S3) P – Radioactivity (P2, C1, S2, S3)	B5 – Health and Disease (B1, B3, B4, S1, S3)	C6 – Acids and Bases (C1, C5, S1, S2) P – Electricity (P2, S1, S2)	B6 – Plants and Photosynthesis (B1, B4, S1, S2)
11	B7 – Hormones C7 – Mass calculations (B4, S1, S3), electrolysis, metals and reversible reactions (C1, C4, C5, P2, S1, S2, S3)	P – Density, heat and gases (P1, P2, C1, S1, S2) B8 – Circulatory and Respiration (B1, B4, S1, S2)	P – Electromagnetism (P1, P2, S1, S2) B9 – Ecology (B1, B3, B4, S2, S3)	P – Work, Power and Vector Diagrams (P1, P2, P3, S1)	Revision	
12	Y12 Biology 1. Lifestyle, health and risk (B1, B4, S1, S2, S3) 2. Genes and health (B1, B2, B4, S1, S2, S3) 3. Voice of the genome (B1, B2, B4, S1, S2, S3) 4. Biodiversity and natural resources (B1, B3, B4, S1, S2, S3)		Y12 Chemistry 1. P: Atomic Structure (C1, S1, S2) 2. P: Mass Calculations (C1) 3. P: Structure and Bonding (C1, C5) 4. P: Energetics (C1, P2) 5. P: Kinetics and Equilibria (C1, C5, P2) 6. I: Redox, Periodicity, Alkaline Earth Metals and Halogens (C1, C4, C5) 7. O: Introduction to Organic (C1, C4) 8. O: Functional Groups (alkanes, halogenoalkanes, alkenes, alcohols) (C1, C3, C5, S3) 9. O: Organic Analysis (C1, C4, C5, S1, S2)		Y12 Physics 1. Matter and Radiation (P1, P2, S1, S2) 2. Quarks and leptons (C1, P1, P2) 3. Quantum phenomena (P1, P2, C1) 4. Waves (P2, S1, S2) 5. Optics (P2, S1, S2) 6. Forces in equilibrium (P1, P2, S1, S2) 7. Motion (P1, P2, S1, S2) 8. Newtons Laws (P1, P2, P3, S1, S2) 9. Force and momentum (P1, P2, P3, S1, S2) 10. Work, energy and power (P1, P2, S1, S2) 11. Materials (P1, P2, C1, S1, S2) 12. Electricity (P1, P2, S1, S2) 13. DC Circuits (P1, P2, S1, S2)	
13	 On the N B3, B4 Infection and fore 	siology Wild Side (B1, , S1, S2, S3) n, immunity, ensics (B1, B3, S1, S2, S3)	Y13 Chem 1. P: Thermodyn P: 2. P: Kinetics and C5,	nistry amics (C1, C5, 2) equilibria (C1,	2. Simple harmonic 3. Thermal ph 4. Gases (P1	rcle (P1, P2, P3) motion (P1, P2, P3) lysics (P1, P3)

Run for your life (B1,	3. P: Electrode potentials (C5,	6. Electric fields (P1, P2, P3, S1, S2)
B4, S1, S2, S3)	P2, S2)	7. Capacitors (P1, P2, S1, S2)
4. Grey matter (B1, B2,	4. P: Acids and bases (C5, S1, S2)	8. Magnetic fields (P1, P2, S1, S2)
B4, S1, S2, S3)	5. I: Periodicity (C1, C4, C5, S1,	9. Electromagnetic induction (P1, P2, P3, S1, S2)
	S2)	10. Radioactivity (P2, C1, S1, S2, S3)
	6. I: Transition metals, complex	11. Nuclear energy (P2, C1, S1, S2, S3)
	ions and reactions of complex	12. Astrophysics (P1, P2, P3, P4, S3)
	ions in aqueous conditions	
	(C1, C4, P2, S1, S2)	
	7. O: Optical isomerism, the	
	carbonyl group and amines	
	(C1, C3, S2)	
	8. O: Aromatic Chemistry (C1 C3,	
	S2)	
	9. O: Polymerisation, amino	
	acids and biochemistry (C1,	
	C3, C5, S1, S2, B2, B4)	
	10. O: Spectroscopy and	
	chromatography (C1, C3, P2,	
	S1, S2)	

Golden threads:

B1 – Cells and organisms	C1 – Matter	P1 – Forces	S1 - The scientific Process	
B2 – Genetics	C2 – The Earth	P2 – Energy	S2 – Investigative Skills	
B3 – Diversity and Ecology	C3 – Organic Chemistry	P3 – Motion	S3 – Ethical/social/	
B4 – Life processes	C4 – Inorganic Chemistry	P4 - Space	political/Economical	
	C5 – Chemical Reactions		implications	