Archbishop Temple Church of England High School Science 5 Year Curriculum

m Biology)

"Chemistry L Z Physics c

Autumn Term				Spring Term Mid-year examinations scheduled			Summer Term End of year examinations scheduled		
Year 7	3. Cells	1.Particles and their	4. Forces	5.Structure and	6. Elements, atoms	7. Sound	9. Reproduction	10. Acids and alkalis	10.Light
		behaviour 2. Working		function of body systems	and compounds				11. Space
		scientifically			8. Reactions				
Year 8	2. Health and lifestyle	1. The periodic table	3. Electricity and magnetism	5. Biological processes	4. Separation techniques	6. Energy	10. Inheritance	8. Metals and other materials	9. Motion and pressure
	Year 7 Retrieval time and working scientifically time			7. Ecosystems and adaptations					
Year 9*	Dining on	The Earth	Marvellous Matter	Powerful Plants &	The Earth	Marvellous Matter	Powerful Plants &	The Earth	Marvellous Matter
	digestion Digestive system	The Earth's structure Atmosphere	Particle theory States of matter	microorganisms Diffusion	Types of rocks Rock cycle	Specific heat capacity	microorganisms Respiration	Finite and renewable resources	Size and structure of atoms
	Enzyme theory	Climate change	Cooling/heating	Photosynthesis	Water cycle	Specific latent heat	Useful Plants and	Recycling	History of the atom
	Rate of enzyme activity practical	Pollutants Carbon cycle	curves Density	Limiting factors Plant tissues and		Gas Pressure and temperature	microorganisms	Earths resources - Limestone	Radioactivity Half life
	Antacids	carbon cycle	Internal energy	organs		temperature		- Iron - Fuel	Nuclear equations
Year 10*	Cells, tissues, organs and health Cell Biology Organisation Infection and response	Atomic structure, the Periodic table and chemical bonds Atoms, elements, compounds and mixtures. Development of the periodic table. The structure of the atomic and subatomic particles Structure and bonding Reactivity series	Atomic Structure (Radioactivity) & Energy Nuclear fission and fusion (triple) Energy stores, KE, GPE, power, efficiency Energy resources	Drugs, contraceptives and bioenergetics Infection and response Hormonal coordination in human reproduction and contraception Hormonal control in infertility (triple) Bioenergetics	Reactivity series and electrolysis – Chemical Changes Displacement reactions Energy changes – exothermic and endothermic reactions Extracting metals Electrolysis of aluminum oxide	Electricity Electricity - circuits Electricity in the home	Ecology Bioenergetics Ecology	Chemical changes (making salts) and Quantitative chemistry Acids and alkalis Making salts Thermometric titration (triple) — exothermic reactions Electrolysis of solutions Chemical cells and fuels cells (triple) Chemistry calculations	Forces Forces and elasticity Force basics – scalar and vector, contact, non contact, resultant forces
Year 11*	Homeostasis (Required practicals and paper 1 recovered) Homeostasis and response (plant hormones for triple award) Paper 1 and required practicals on Mock	Organic chemistry Chemical analysis Crude oil and hydrocarbons	Waves Waves – properties, Electromagnetic Spectrum Waves – Reflection, sound, detection, light & lenses, Visible light, black body radiation (Triple) Car safety and momentum	Inheritance, variation and evolution Inheritance, variation and evolution	Organic chemistry, The Earth's atmosphere and Using resources Crude oil and hydrocarbons The Earth's atmosphere	Magnetism & Electromagnetism Magnetism basics Electromagnetism basics Electromagnetism rules, motors Electromagnetism rules, motors Electromagnetism generator effect, loudspeaker, induction, transformers (triple)	Final exam preparation Exam Preparation and GCSE Examinations	Final exam preparation Using resources Exam Preparation and GCSE Examinations	Space (triple) & recap of Particle model matter Exam Preparation and GCSE Examinations Space (Triple) – solar system, stars, satellites, Red-shift & big bang