Science Curriculum Plan

Year	Topic	
Y7	Term 1	Energy -including graph skills
		Matter and Particle Theory
		Cells and Organisms
	Term 2	Atoms, elements and compounds
		Forces and motion
		Reproduction
	Term 3	Acids and alkalis
		Sound and Light waves
		Food chains and Ecosystems. Predator and prey adaptations. Interdependence.
Y8	Term 1	Chemical reactions
		Photosynthesis and Respiration
		Electricity
	Term 2	Magnetism. Electromagnets
		Food, digestion and health
		Space and the Universe
		Earth and Rocks
	Term 3	More on reactions (oxidation, metals and acids). Materials.
		Moments, Work and Pressure.
		Variation and Evolution (introduction to evolution with links to competition and adaptation (Darwin and Lamarck)
Y9	Term 1	Separation Techniques
		Health and disease (communicable and non-communicable diseases)
		Molecules and Matter (Particle model, Density, Gas pressure)
	Term 2	Cells and Inheritance inc. KS3 introduction to Inheritance
		Atomic structure
		The Periodic Table and Structure and bonding (Particle model, Density, Gas pressure) (8)
	Term 3	Energy and Energy Resources (Work, Power, Efficiency, Energy resources)
		Heat transfer and Internal Energy (Specific heat capacity. Latent heat. Internal energy)

Y10	Term 1	Animal systems and Respiration (Digestive system, enzymes, circulatory system, breathing, anaerobic and aerobic respiration and exercise)
		Radioactivity
		Chemical changes
	Term 2	Electricity (electrical circuits and in the home)
		Plants and photosynthesis (photosynthesis, transport systems, transpiration)
		Electrolysis and Energy Changes
		Nervous and endocrine systems
	Term 3	Forces and Motion
		Chemical Calculations. Chemical Analysis and Chromatography
		Reproduction and Inheritance
		Crude oil and fuels. Organics
Y11	Term 1	Waves and the EMS
		Evolution and Genetics
		Rates of reaction
	Term 2	Electromagnetism
		Ecology

* Please note that some topics from previous years may be revisited to ensure missed knowledge (due to pandemic) is covered