

TOPIC	Physics		
	Year 7	Year 8	Year 9
1	Waves Properties of sound waves, structure of the ear, properties of light and its behaviour, structure of the eye.	Forces and Pressure Contact forces, elastic deformation, friction, pressure between solids and in fluids, floating and sinking.	Conservation of Energy Energy stores and the conservation of energy, kinetic, gravitational, elastic energy stores, and efficiency.
2	Heating and Cooling Concept of temperature, conduction, convection, radiation and reducing unwanted energy transfers.	Energy and Work Work done and energy transfer, work against friction, levers, pulleys, and gears.	Energy Resources Renewable and non-renewable energy resources, environmental impacts on a variety of ways of generating electricity and the implications for the future.
3	Forces and Motion Speed, distance-time graphs, relative motion, introduction to forces and gravity.	Voltage and Current Static electricity, circuit construction, circuit theory and resistance.	Waves Transverse and longitudinal waves, determining wave speed, reflection, and refraction.
4		Electromagnetism Magnetism and magnetic fields, electromagnets, and their applications.	Electromagnetic Waves Uses and applications of waves that make up the electromagnetic spectrum.
5			Space Formation of the solar system, orbits, the life cycle of stars and the theory of the expanding universe.