Curriculum Map Year 8

	Autumn term 1	Autumn term 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 8	**Energy and sound Waves**	**Organisms and light waves**	**Earth**	**Genes**	**Ecosystems**	**Forces**
Knowledge & Skills	ENERGY: doing work,making work easier,thermal energy,heating, insulators, energy and temperature. WAVES: sound waves and sounds, hearing sounds, how sound travels through materials, reflection and absorption of sounds	ORGANISMS:how we breathe, measuring breathing, gas exchange in humans, disease and lifestyle, healthy diet, unbalanced diet and effects, human digestive system and its organs. WAVES: The eye, nature of light, reflection, refraction, seeing clearly, coloured light.	EARTH: The rock cycle, the effects of millions of years of weathering, sedimentation, erosion,heating and cooling. Types of volcano, magma and rock formation. Formation of mountain ranges. Earth in Space:Distances in space are vast,light years are used to measure such as the size of our galaxy. What this means in terms of light travelling through space.	GENES: Investigating variation, causes of variation, importance of variation, selective breeding, fertility, male and female reproductive systems,foetal development, smoking during pregnancy.	ECOSYSTEMS: Aerobic respiration, respiration in sport, anaerobic respiration, fermentation, aerobic and anaerobic respiration, how plants make food, leaf structure, movement of water through plants, investigating the importance of minerals to plants, investigating photosynthesis.	FORCES: Analysing equilibrium, friction and drag, stretch and compression, Hooke's Law, Pressure in solids, Pressure in fluids, pressure calculations,sinking and floating
Assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment	Retrieval practice 1 x Formative skills and knowledge assessment (Practical assessment) 1 x Summative skills and knowledge assessment