
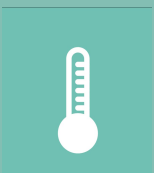






5-year curriculum map: Physics

Area	Big Idea	1	2	3	4	5
 <p>Forces</p>	Forces predict motion	Contact forces <ul style="list-style-type: none"> Balanced or unbalanced Friction Density 	Movement <ul style="list-style-type: none"> Speed Motion graphs 	Acceleration <ul style="list-style-type: none"> Vectors Newton's 1st law Acceleration 	Newton's laws <ul style="list-style-type: none"> Newton's 2nd law Stopping distance Momentum 	
	Fields produce forces	Gravity <ul style="list-style-type: none"> Weight Gravitational force Solar system 	Magnetism <ul style="list-style-type: none"> Magnetic force Current & magnetism 		Force fields <ul style="list-style-type: none"> Non-contact forces Motor effect 	
 <p>Energy</p>	Energy is conserved	Energy transfers <ul style="list-style-type: none"> Energy Wasted energy Heat & temperature 		Heating <ul style="list-style-type: none"> Thermal transfer Pressure Specific & latent 		Energy conservation <ul style="list-style-type: none"> Kinetic & potential Work
	Electricity transfers energy	Electric circuits <ul style="list-style-type: none"> Electric current Resistance 	Electrical energy <ul style="list-style-type: none"> Electric charge Potential difference 		Home electricity <ul style="list-style-type: none"> Energy resources Ohm's law Power 	
	Radiation transfers energy		Light <ul style="list-style-type: none"> Reflection Refraction 	Sound & waves <ul style="list-style-type: none"> Wave properties Longitudinal or transverse 	E.m. radiation <ul style="list-style-type: none"> Electromagnetic spectrum Wave energy 	Radioactivity <ul style="list-style-type: none"> Atomic model Radioactive decay

5-year curriculum map: Chemistry

Area	Big Idea	1	2	3	4	5
 Matter	Structure determines properties	Substances & particles <ul style="list-style-type: none"> Particle model Mixtures Solutions 	Elements & compounds <ul style="list-style-type: none"> Elements or compounds Simple or giant 	Periodic table <ul style="list-style-type: none"> Periodic patterns Subatomic particles 	Structure & bonding <ul style="list-style-type: none"> Bonding types Structure & properties Electrolysis 	Carbon chemistry <ul style="list-style-type: none"> Hydrocarbons Refining
	Reactions rearrange matter	Changing substances <ul style="list-style-type: none"> Chemical & physical pH scale Neutralisation 	Reactants & products <ul style="list-style-type: none"> Oxidation Thermal decomposition Acid reactions 	Matter & energy <ul style="list-style-type: none"> Atom conservation Combustion Bond energy 	Controlling reactions <ul style="list-style-type: none"> Reaction rates Equilibrium 	Making substances <ul style="list-style-type: none"> Making salts Amount of substances
	Earth systems interact		Earth systems <ul style="list-style-type: none"> Rock cycle Water cycle 	Using resources <ul style="list-style-type: none"> Reactivity series Potable water Product life-cycle 	Atmosphere <ul style="list-style-type: none"> Changing atmosphere Climate change Air pollutants 	

5-year curriculum map: Biology

Area	Big Idea	1	2	3	4	5
 Organisms	Cells are alive	Cells <ul style="list-style-type: none"> • Cell structure • Specialised cells 		Growth & differentiation <ul style="list-style-type: none"> • Stem cells • Cell transport • Cell division 		
	Bodies are systems		Tissues & organs <ul style="list-style-type: none"> • Gas exchange • Cell organisation • Digestive system 		Organ systems <ul style="list-style-type: none"> • Circulatory system • System damage • Immune system 	Feedback & control <ul style="list-style-type: none"> • Nervous system • Endocrine system • Enzymes
 Ecosystems	Organisms are interdependent	Interdependence <ul style="list-style-type: none"> • Feeding relationships • Competition • Abiotic & biotic factors 		Human interaction <ul style="list-style-type: none"> • Biodiversity • Communicable disease 		
	Ecosystems recycle resources		Respiration <ul style="list-style-type: none"> • Aerobic respiration • Anaerobic respiration 		Photosynthesis <ul style="list-style-type: none"> • Photosynthesis • Plant transport 	
 Genes	Characteristics are Inherited	Reproduction <ul style="list-style-type: none"> • Sexual & asexual • Menstrual cycle • Embryo development 		Genetics <ul style="list-style-type: none"> • Genes • Monohybrid inheritance 	Controlling reproduction <ul style="list-style-type: none"> • Reproductive hormones • Genetic engineering 	
	Species show variation		Evolution <ul style="list-style-type: none"> • Variation • Natural selection • Selective breeding 			Life diversity <ul style="list-style-type: none"> • Evolutionary evidence • Adaptation