
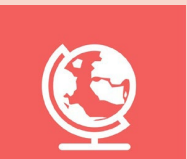
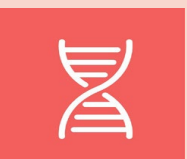
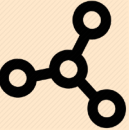





7-year Learning Journey: Biology

Area	Big Idea	7	8	9	10	11	12	13
 Organisms	Cells are alive		Cells		Growth and differentiation		Biological molecules Cells	
	Bodies are systems			Tissues & organs	Respiration Infection & Response Organ systems	Feedback & control	Exchange and transport	
 Ecosystems	Organisms are interdependent	Infections and treatments	Interdependence					Organisms respond to changes in their internal and external environment
	Ecosystems recycle resources			Respiration	Bioenergetics Ecology			Energy transfers in and between organisms
 Genes	Characteristics are Inherited					Genes and reproduction		Genetics, populations and evolution systems
	Species show variation	DNA and it's applications		Life diversity		Inheritance and Evolution	Biodiversity	Control of gene expression

7-year Learning Journey: Chemistry

Area	Big Idea	7	8	9	10	11	12	13
Matter 	Structure determines properties	Pigments & Chromatography	Matter & Mixtures	Periodic Table & Elements	Atomic Structure & Periodic table Matter Structure & bonding Bonding types	Chemical Calculations Organic Chemistry	Atomic structure Groups 2, 7 and Periodicity Bonding	Electro-potential cells Transition elements Amino acids, proteins and DNA Interpreting molecules
	Reactions rearrange matter	Acids & Alkalis	Reactions in Metals pH Scale	Chemical Energy & Types of Reaction	Chemical Changes Chemical Calculations Energy Changes Making substances	Chemical Analysis	Amount of substance Energetics Redox Kinetics Organic chemistry – alkanes, halogenoalkanes, alkanes, alcohols, analysis	Thermodynamics Acids and bases Reactions of aqueous ions Carbonyl chemistry Rates Equilibria
 Earth	Earth systems interact	Earth & Seasons	The Rock Cycle	Climate & earth Resources		Chemistry of the Atmosphere Using resources		

7-year Learning Journey: Physics

Area	Big Idea	7	8	9	10	11	12	13*
	Forces predict motion	Gravity	Intro to Forces	Exploring Forces	Newton's laws	Forces	Measurements & Errors	Fields
	Fields produce forces	Space		Contact & Pressure	Energy	Magnetism Space (Triple Only)		
	Energy is conserved		Energy Stores	Energy & Temperature	Particle Model of Matter Heating		Mechanics & Energy	Further Mechanics & Thermal Physics
	Electricity transfers energy		Electric Circuits	Electromagnets	Home electricity		Electricity	Nuclear Physics
Energy Transfer	Radiation transfers energy	Ultra violet	Exploring Sound & Light			Waves E.M. radiation	Waves Particles & Radiation	

*Yr 13 Options x 1 of following: Astrophysics, Medical Physics, Engineering Physics, Turning Points or Electronics