

	Theme	Topics	Knowledge
Autumn 1	Chemistry	Materials and mixtures	Composite materials Properties of composite materials Classifying and comparing Substances Boiling and melting Particle model of solids liquids and gases Solutions Particles in solution (Separating solutions)
	Physics	Forces	Identifying simple forces Effects of forces Types of forces Measuring forces Interaction pairs of forces Resultant forces Friction and lubricants
Autumn 2	Biology	Cells and life	Living dead never been alive Identifying life processes Microscopy Living cells and cell structures Cell shape, size and specialisation Diffusion and the cell membrane Genetic information Structure and function of the genome Cells tissues and organ systems
	Physics	Earth in Space Sound, light and waves	Planets and the solar system Gravity The night sky, stars and galaxies Characteristics of light Production and transmission of sound

Year 7: Science Long Term Plan

			Energy stores and transfers
Spring 1	Biology	From Cells to Organ Systems	Circulatory system Digestive system Skeletal system How we see
	Physics	How we see	Passive eye model of vision Seeing in colour
Spring 2	Chemistry	Elements and compounds Chemical change	Atoms and molecules Symbols and formulae Polymers Forming new substances Rearrangement of atoms
Summer 1	Physics	Heating and cooling	Temperature Heating and cooling Thermal conduction Thermal store of energy and heat dissipation
	Chemistry	Solubility and chemical change	Comparing solubility Reactions in solution
Summer 2	Biology	Variation	What is a species Differences within a species Discontinuous and continuous variation Heritable variation
	Physics	Forces and motion	Describing speed Graphs of motion Changing motion Drag