



Science Curriculum Plan Overview

Year 7				
Term	Topic	Learning	How can parents' best support	Key Vocabulary
Autumn 1	Human Biology	Cells, Tissues and Organs	Watch "How the body Works" documentary from the BBC found on Youtube. Discuss how they have grown and relate topics covered to your own experiences.	Cells Tissues Nucleus Cell Wall Cytoplasm Mitochondria Organs Human Body Diet Digestion System Respiratory
		Muscles and Bones	Take part in exercise together. Talk about using different muscles for different jobs.	Living Non Living Muscles Bones Tendons Skeleton Protection Function Joint Fixed Hinge
Assessment:	End of unit tests			
Autumn 2	Human Biology	Sexual Reproduction (linked to Life Skills)	Watch and discuss topics about ecosystems from <ul style="list-style-type: none"> Countryfile: Sunday BBC1. Planet Earth and Planet Earth 2, Blue Planet or Blue Planet 2. 	Earth Habitat Food Cycles
	Our Environment	Ecosystems		
Assessment:	End of unit tests			
Spring 1	Chemical Reactions	Mixtures and Separation	Cook or bake and relate the processes to chemical reactions in the kitchen.	Acid Alkali Indicator Chromatography Reversible Irreversible Neutral pH
		Acids and Bases	Discuss the use of acids: Vinegar for pickling and preserving vegetables. Acetic acid for flavouring sour sweets. Alkalis for cleaning in the home.	
Assessment:	End of unit tests			
Spring 2	Chemistry in our World	The particle model	Discuss what we think everything is made up of. Discuss new compounds being discovered or used e.g polymer £5 notes. Try to	Particles Atoms Elements Compounds Solid Liquid Gas

		Atoms, elements and compounds	think about the advantages and disadvantages of using natural and man-made materials. Discuss what they think of single use plastics and what we could use as alternatives.	Energy Natural Man Made
Assessment:	End of unit tests			
Summer 1	Physics- How stuff works	Forces	Think about and discuss what forces act on us in daily life: Forces that keep us on the ground, forces that stop us slipping when we walk. Why we wear snow shoes or ice skates?	Force Balanced Equal Unbalanced Gravity Resistance Upthrust Move Push Pull
Assessment:	End of unit tests			
Summer 2	Physics – Where our energy comes from	Energy Electricity	Discuss the pro's and con's of renewable and non-renewable energy on our environment. How much do we pay for our electricity?	Physics Energy Electricity Positive Negative Conductor Insulator Metal Battery Switch Bulb Circuit Series Parallel Safety