



Half term	TOPIC	CONTENT
1	<b>Safety in labs</b>	Safety in laboratories, hazard symbols, Bunsen burners.
	<b>Particle Theory</b>	Solids, liquids and gases. Kinetic theory of matter. Hardness, expansion and diffusion.
OCTOBER HALF TERM HOLIDAY		
2	<b>Cells, Tissues and Organs</b>	Structure of plant and animal cells. Cell organelles. Specialised cells. Use of microscope. Tissues, organs and organ systems. Growth.
	<b>Reproduction</b>	Male and female reproductive organs. Fertilisation. Growth in the womb and placenta function. Puberty. Siamese twins.
CHRISTMAS HOLIDAYS		
3	<b>Reproduction <i>continued</i></b>	Male and female reproductive organs. Fertilisation. Growth in the womb and placenta function. Puberty. Siamese twins.
	<b>Forces</b>	Introduction to speed and calculating speed. Weight, mass and resistance forces. Stretching and measuring (Hooke's law) . Balanced and unbalanced forces including force diagrams. Effect of friction on forces. Forces in water.
FEBRUARY HALF TERM HOLIDAY		
4	<b>Speed</b>	Calculating speed. Distance/time graphs. Analysing data.
EASTER HOLIDAYS		
5	<b>Speed <i>continued</i></b>	Calculating speed. Distance/time graphs. Analysing data.
	<b>Inter-dependence</b>	Habitats and adaptations. Food chains and webs.
MAY HALF TERM HOLIDAY		
6	<b>Acids, Alkalis and Salts</b>	Chemical opposites (inc. litmus). pH scale, types of acid, universal indicator. Neutralisation . Naming salts.