



Half term	TOPIC	CONTENT
1	Particles	Differences between atoms, elements and compounds. Chemical symbols and formulae for elements and compounds. Solutions and Separation.
	Chemical and Physical Changes	Practical investigations into the differences between chemical and physical changes.
OCTOBER HALF TERM HOLIDAY		
2	Chemical and Physical Changes continued	Practical investigations into the differences between chemical and physical changes.
	Cellular Respiration and Gas Exchange	Aerobic respiration in living organisms. Breakdown of organic molecules during chemical processes. Diffusion of gases. Structure and function of breathing system in humans.
CHRISTMAS HOLIDAYS		
3	Photosynthesis	Mechanism of photosynthesis including word equation. Raw materials and where they are found. Dependence on photosynthesis of all life on Earth.
FEBRUARY HALF TERM HOLIDAY		
4	Recycling, the Carbon Cycle and Global Warming	Earth as a source of limited resources. Efficacy of recycling. The Carbon Cycle. Gases involved in global warming.
EASTER HOLIDAYS		
5	Non-contact Forces	Gravity and its effect on Earth and other planets. Effect of gravity in maintaining positions of planets.
	Skeletal and Muscular Systems	Structure and functions of the human skeleton, to include: support, protection, movement and making blood cells. Antagonistic muscles.
MAY HALF TERM HOLIDAY		
6	Light	Comparison of light waves with other wave-types. Transmission of light waves through a vacuum and also through materials. Colour. The Human eye.