

Half term	Title	Unit summary	Assessment
1 and 2	Biology 1 Digestive System and Healthy Living (Teacher 1)	 Students will learn about: A healthy diet and its importance. The organs in the digestive system and their functions. Healthy living; alcohol, drugs and smoking. 	Demonstrate knowledge and understanding of investigative science and experimental procedures to obtain results used to make conclusions in a practical assessment on the effect of temperature on enzyme activity To demonstrate knowledge, apply understanding and analyse information in an end of unit test on biology 1 content with cumulative knowledge from year 7 biology 1.
	Chemistry 1 The Periodic Table, Chemical Reactions and Materials (Teacher 2)	 Students will learn about: Properties of elements in different groups on the periodic table Chemical reactions; conservation of mass, combustion, thermal decomposition, exothermic and endothermic reactions Materials; ceramics, polymers and composites 	Demonstrate knowledge and understanding of investigative science and experimental procedures to obtain results used to make conclusions in a practical assessment on the energy released from different types of fuels. To demonstrate knowledge, apply understanding and analyse information in an end of unit test on chemistry 1 content with cumulative knowledge from year 7 chemistry 1.
3 and 4	Physics 1 Forces, Magnets and Pressure (Teacher 1)	 Students will learn about: Forces; Balanced and unbalanced forces, friction, work done and moments. Magnets and electromagnets and their uses. Pressure in solids and fluids. 	Demonstrate knowledge and understanding of investigative science and experimental procedures to obtain results used to make conclusions in a practical assessment on how the number of coils changes the strength of an electromagnet. To demonstrate knowledge, apply understanding and analyse information in an end of unit test on physics 1 content with cumulative knowledge from year 7 physics 1.
	Chemistry 2 Separating Techniques, the Atmosphere and Resources (Teacher 2)	 Students will learn about: Separating mixtures; filtration, evaporation, chromatography, distillation and solubility. The atmosphere and global warming. Recycling and life cycle assessments. 	Demonstrate knowledge and understanding of investigative science and experimental procedures to obtain results used to make conclusions in a practical assessment on the effect of temperature on solubility. To demonstrate knowledge, apply understanding and analyse information in an end of unit test on chemistry 2 content with cumulative knowledge from chemistry 1 and year 7 chemistry 2.
5 and 6	Biology 2 Photosynthesis, Respiration and Ecology (Teacher 1)	 Students will learn about: Aerobic and anaerobic respiration. Leaf structure and photosynthesis. Ecology; food chains, bioaccumulation, the carbon cycle, decay and biodiversity. 	Demonstrate knowledge and understanding of investigative science and experimental procedures to obtain results used to make conclusions in a practical assessment on the effect of light intensity on the rate of photosynthesis. To demonstrate knowledge, apply understanding and analyse information in an end of unit test on biology 2 content with cumulative knowledge from year 8 biology 1 and year 7 biology 2.
	Physics 2 Heat Transfers and Waves (Teacher 2)	 Students will learn about: Heat transfers; conduction, convection and radiation. Types of waves and the wave equation. Sound, ultrasound and the ear. 	Demonstrate knowledge and understanding of investigative science and 6yexperimental procedures to obtain results used to make conclusions in a practical assessment on the effects of different insulating materials. To demonstrate knowledge, apply understanding and analyse information in an end of unit test on physics 2 content with cumulative knowledge from year 8 physics 1 and year 7 physics 2.