BHBS Science Year 8 Learning Journey

Autumn	Spring	Summer
8A Diet & Digestion • Interpret nutrition labels (AO2) • Recall the different food groups (AO1) • Describe food tests (AO2) • Explain the meaning of a balanced diet (AO2) • Describe the process of digestion (AO2)	**8C Diseases** • Recall types of microbes (AO1) • Describe methods of disease transmission (AO2) • Describe methods of prevention & treatment of disease (AO2)	**8D Habitats** • Classify living things (AO2) • Practical skills – sampling populations (AO2) • Describe factors affecting populations (AO2) • Numeracy skills – interpret graphs (AO2) • Devise pyramids of numbers (AO2)
8B Respiration • Sate the meaning of respiration (AO1) • Identify factors affecting respiration (AO2) • Describe the parts and function of the circulatory system (AO1/2) • Numeracy skills – interpret data (AO2)	**8F Materials & Chemical Reactions** • State the meaning of atom, element & compound (AO1) • Describe properties of metals (AO2) • Complete word equations for simple chemical reactions (AO2)	**8H Explaining the Earth** • Recall the 3 types of rocks (AO1) • Describe properties of sedimentary, igneous and metamorphic rocks (AO2) • Describe the formation of rocks (AO2) • Practical skills – compare the reactivity of different rocks (AO2)
8E Water • State the meaning of a mixture (AO1) • Use a model to represent solubility (AO2) • Describe the process of filtration (AO2) • Practical skills – identify risks and precautions (AO2) • Describe applications of chromatography (AO2)	**8G Elements & Compounds** • Identify elements in the periodic table • Describe signs of a chemical reaction (AO2) • Identify risks and precautions (AO2) • Represent chemical reactions using symbols and particles (AO2)	**8K Light** • State the meaning of reflection, refraction and dispersion (AO1) • Practical skills – record data (AO2) • Numeracy skills – construct and analyse graphs (AO2) • Recall the colours of the visible spectrum (AO1)
8I Thermal Energy Transfers • Compare thermal energy & temperature (AO2) • Describe the processes of conduction, convection and radiation (AO2) • Numeracy skills – interpret heating and cooling graphs (AO2) • Practical skills - devise a method to compare insulators (AO2)	**8J Forces** • Describe how drag can be reduced (AO1) • Develop numeracy skills - Calculate pressure (AO2) • Describe how to construct an electromagnet (AO1) • Practical skills – accurate measurement (AO2)	**8L Sound** • Literacy - key vocabulary amplitude, frequency • Describe how sound is produced and travels (AO2) • Desribe applications of ultrasound (AO2) • Numeracy skills – compare data (speed of light & sound (AO2) • Practical skills – compare sound insulators (AO2)