Subject	Biology		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
12	Students will describe and explain the concepts of: 3.1 Biological molecules • Monomers and polymers • Carbohydrates, Lipids, Proteins, Enzymes, Nucleotides, Water and Inorganic Ions. 3.2 Cells • Structure of prokaryotic and eukaryotic cells. • Microscopy • Cell cycle • Transport across membranes • Immune system	Students will describe and explain the concepts of: 3.3 Organisms exchange substances with their environment • Surface area to volume ratio • Gas exchange and digestion • Mass transport in animals and plants 3.4 Genetic information, variation and relationships between organisms • DNA, genes and chromosomes • Protein synthesis • Genetic diversity - Mutation and meiosis, adaptation • Species and taxonomy, biodiversity	Students will spend some time reviewing the year's work and preparing and DIRTing PPE. Students will describe and explain the concepts of: 3.7 Genetics, populations, evolution and ecosystems Inheritance, populations, evolution, speciation and populations in ecosystems. Students will complete required practical 12 on a residential field trip.