Key Vocabulary for Spring Term Overviews

Subject: Triple Science	Year Group: 10		
Key Learning Points/End Points	**Key Vocabulary**		
Biology: Genetics and Natural selection To understand how sexual reproduction leads to genetic variation and explain how genetic variation is the key to evolution through natural selection.	Meiosis Sexual reproduction Nucleotide Genetic variation Dominant allele Recessive allele Punnett square	Inheritance Mutation DNA extraction Classification Kingdoms Domains Selective breeding	Genetic engineering Restriction enzymes Ligase enzymes Natural selection Pentadactyl limb Antibiotic resistance
Chemistry: Bonding, Types of substance and Electrolytic processes. Chemical cells and Fuel cells. To understand how different substances are formed through ionic bonding, covalent bonding and metallic bonding. To be able to describe the process of electrolysis and its applications.	Lattice structure Delocalised electrons Ions Electrostatic attraction Electron shells Covalent bonds Simple covalent structures Allotropes of carbon	Ionic bonds Ionic lattices Dot and cross diagram Electrolysis Electrodes Anode Cathode Oxidation	Reduction Redox reactions Half-equations Ore Displacement reactions Chemical cells Salt bridge Fuel cell
Physics: Forces and Motion. Conservation of energy To understand how motion can be calculated and represented graphically. To be able to apply knowledge of Newtons first three Laws to describe the interactions of different forces. To understand how energy can be transferred between stores but never created or destroyed.	Vectors Scalars Distance time graphs Velocity time graphs Resultant force Magnitude Newton's first Law Balanced forces Unbalanced forces	Gravitational field strength Newton's second Law Momentum Action/reaction force Force-fields Stopping distance Thinking distance Braking distance Safety mechanisms	Energy conservation Energy store Energy transfer Efficiency Renewable energy Non-renewable energy