

## Year 10 Triple Science SKI Week Preparation

Assessment Session	Subject	Content	Number of marks
1	Biology	<p>SB1 Key concepts in Biology : cells, enzymes, microscopes, diffusion and osmosis</p> <p><a href="#">Animal cells - Cell structure - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Enzymes - Enzymes - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Diffusion - Transport in cells - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SB2 Cell division , growth and nervous system</p> <p><a href="#">DNA and chromosomes - Cell division - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">The structure and function of the nervous system - Coordination and control - The nervous system - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SB3 Genetics – DNA, inheritance, mutations, variation</p> <p><a href="#">Evaluating sexual and asexual reproduction - Reproduction, the genome and gene expression - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Mutation and variation - Genetic inheritance - part one - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Inheritance of blood groups - Genetic inheritance - part two - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>Sb4 Natural selection and genetic modification.</p>	100

Assessment Session	Subject	Content	Number of marks
		<p><a href="#">Darwin's theory of evolution - Evolution - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Genetic modification - Genetic modification - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SB 5 Health , disease</p> <p><a href="#">Health - Communicable disease - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Pathogens as causes of plant diseases - Plant disease - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Defence against infection - Treating, curing and preventing disease - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Defence against infection - Treating, curing and preventing disease - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">The discovery of new drugs - Making medicines - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Different types of diseases - Non-communicable diseases - Edexcel - GCSE Biology (Single Science) Revision - Edexcel - BBC Bitesize</a></p>	
2 Option assessment slot	Biology / physics	Complete Biology and start physics exam	
3.	Chemistry	<p>SC1-2 States of matter, Methods of separating and purifying substances</p> <p><a href="#">Solids, liquids and gases - States of matter - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p>	60

Assessment Session	Subject	Content	Number of marks
		<p><a href="#"><u>What are changes of state? Chemistry interactive - Edexcel - BBC Bitesize</u></a></p> <p><a href="#"><u>Pure substances and mixtures - Separation and purification - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC3 Atomic structure</p> <p><a href="#"><u>Developing models of atoms - Atomic structure - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC4 The periodic table</p> <p><a href="#"><u>Mendeleev's periodic table - The periodic table - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC5 Ionic bonding</p> <p><a href="#"><u>Forming ions - Ionic compounds - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC6 Covalent bonding</p> <p><a href="#"><u>Covalent bond - Simple molecular substances - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p><a href="#"><u>Substances with many covalent bonds - Giant covalent substances - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC7 Types of bonding</p> <p><a href="#"><u>Metals vs non-metals - Metals and non-metals - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</u></a></p> <p>SC8 Acids and alkalis</p>	

Assessment Session	Subject	Content	Number of marks
		<p><a href="#">Acidic and alkaline solutions - Acids and alkalis - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Making salts from acids and insoluble reactants - Salts - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SC9 Calculations involving masses</p> <p><a href="#">Relative formula mass - Chemistry calculations - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">The mole - Higher - Mole calculations (higher) - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SC10 Electrolysis</p> <p><a href="#">Electrolysis of molten salts - Electrolysis - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SC11 Obtaining and using metals.</p> <p><a href="#">The reactivity series of metals - Obtaining and using metals - Edexcel - GCSE Chemistry (Single Science) Revision - Edexcel - BBC Bitesize</a></p>	
3	<p>Physics</p> <p>( SP3,4,&amp;5 covered at end of year 9)</p>	<p>Sp1 Motion</p> <p><a href="#">Scalar quantities - Scalar and vector quantities - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Motion in a straight line - Motion - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>Sp2 Forces and motion</p>	100

Assessment Session	Subject	Content	Number of marks
		<p><a href="#">Newton's first law - Newton's laws - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">What is momentum? - Momentum - Higher - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Stopping distances - Motion of vehicles - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SP3 Conservation of energy</p> <p><a href="#">Types of energy store - Changes in energy - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Energy dissipation - Efficiency - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Energy use - Energy sources - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>Sp4 Waves</p> <p><a href="#">Types of waves - Properties of waves - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Sound waves - Sound and ultrasound - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>SP5 Light and the electromagnetic spectrum</p> <p><a href="#">Reflection of waves - Reflection and refraction - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Reflection of light - Light waves - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p>	

Assessment Session	Subject	Content	Number of marks
		<p><a href="#">Convex and concave lenses - Lenses - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">EM waves and the electromagnetic spectrum - Electromagnetic waves - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>Sp6 Radioactivity.</p> <p><a href="#">Structure of the atom - Atoms - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Radioactive decay - Nuclear radiation - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Irradiation - Uses and dangers of radioactivity - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Nuclear fission - Nuclear power - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p>Sp7 Space</p> <p><a href="#">Structure of the Solar System - The Solar System - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">Red-shift - The Universe - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p> <p><a href="#">The Sun - The life cycle of stars - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a></p>	