

	HT1	HT2	HT3	HT4	HT5	HT6
Year 11	<p>Key Content:</p> <p>Biology Homeostasis Principle of hormonal control The Control of blood glucose levels Treating Diabetes The role of negative feedback Human Reproduction Hormones and the menstrual Cycle The artificial control of fertility Infertility treatments Plant hormones and responses Using plant hormones</p> <p>Chemistry Chemical analysis Pure substances and mixtures Analysing chromatograms Testing for gases Tests for positive ions Tests for negative ions Instrumental analysis The history of our atmosphere Our evolving atmosphere Greenhouse gases 4 Global climate change</p> <p>Physics Reflection of Light Refraction of Light Light & Colour Lenses Using Lenses</p>	<p>Key Content:</p> <p>Biology The Nervous System Controlling body temperature Removing waste products The human kidney / Dialysis Kidney Transplant Types of reproduction Cell division in sexual reproduction</p> <p>Chemistry Atmospheric pollution Finite and renewable resources Water safe to drink Treating waste water Extracting metal from ores Life Cycle Assessments</p> <p>Physics Magnetic Fields Magnetic Fields of Electric Currents Electromagnets in Devices The Motor Effect (H) The Generator Effect (H) A.C. Generator (H)</p> <p>MOCK EXAMS 1</p>	<p>Key Content:</p> <p>Biology Inherited disorders/ screening for genetic disorders Variation Evolution by natural selection Selective breeding - Genetic Engineering Cloning / adult cell cloning History of genetics / theories of evolution Evolution and speciation Fossils and Extinction Antibiotic resistant bacteria and classification Genetic Engineering</p> <p>Chemistry Reduce, reuse, and recycle Rusting Useful alloys The properties of polymers Glass, ceramics, and composites Making ammonia – the Haber process The economics of the Haber process Making fertilisers in a lab/ Making fertiliser in industry</p> <p>Physics Transformers (H) Transformers in Action (H) Formation of the Solar System Life History of a Star Planets Satellites & Orbits The Expanding Universe The Beginning & Future of The Universe</p>	<p>Key Content:</p> <p>Biology Importance of community & organisms in their environment Distribution and abundance Competition in animals and plant Adapt and survive – Adaptation in animals and plants Feeding Relationships materials cycling Carbon Cycle and rates of decomposition The human population explosion and/ Water and Air Pollution Deforestation and peat destruction Global Warming – the impact of change Maintaining biodiversity Trophic levels and biomass</p> <p>Chemistry Relative masses and moles Equations and calculations From masses to balanced equation The yield of a chemical reaction</p> <p>Physics Revision</p> <p>MOCK EXAMS 2</p>	<p>Key Content:</p> <p>Biology Food Production REVISION FOR PAPER 1</p> <p>PAPER 1 EXAMS</p> <p>Chemistry Atom economy Expressing concentrations Titrations Titration calculations Volumes of gases</p> <p>Physics Revision</p>	<p>Key Content:</p> <p>REVISION FOR PAPER 2</p> <p>PAPER 2 EXAMS</p>
	<p>Key Skills: Describing Key Processes Relating Properties to Structure Writing word and symbol equations Balancing equations Investigative skills Use of practical techniques Mathematical Skills</p>	<p>Key Skills: Mathematical Skills Describing Key Processes Relating Properties to Structure Writing Word and Symbol Equations Balancing Equations Exam Technique Practical Skills</p>	<p>Key Skills: Mathematical Skills Evaluating information Writing word and symbol equations Balancing equations Investigative skills Use of practical techniques Exam Technique</p>	<p>Key Skills: Writing word and symbol equations Balancing equations Investigative skills Use of practical techniques Exam Technique Describing Key Processes</p>	<p>Key Skills: Exam Technique Recall & Revision Strategies Mathematical Skills Investigative Skills</p>	<p>Key Skills: Exam Technique Recall & Revision Strategies Mathematical Skills Investigative Skills</p>

Year 10	<p>Key Content:</p> <p>Biology B4.1 – The Blood B4.2 – The Blood Vessels B4.3 – The Heart B4.4 – Helping the heart B4.5 – Breathing and Gas Exchange B4.6 – Tissues and Organs in plants B4.7 – Transport systems in plants B4.8 – Evaporation and Transpiration Revision for B4 Test Feedback on B4 Test</p> <p>Chemistry Structure and bonding C3.1 States of Matter C3.2 Atoms into Ion C3.3 Ionic Bonding C3.4 Giant Ionic Structures C3.5 Covalent Bonding C3.6 Simple Covalent Molecules C3.7 Giant Covalent Structures C3.8 Fullerenes & Graphene C3.9 Bonding in Metals C3.10 Giant Metallic Structures C3.11 Nanoparticles C3.12 Applications of nanoparticles</p> <p>Physics Radioactivity Half Life Graphs & Calculations Nuclear Fission & Fusions P7.1 – Atoms & Radiation P7.2 – The discovery of the nucleus P7.3 – Changes in the nucleus P7.4 – More about alpha, beta & gamma P7.5 – Activity & Half-Life P7.6 – Nuclear Radiation in Medicine P7.7 – Nuclear Fission P7.8 – Nuclear Fusion P7.9 – Nuclear Issues P7 Revision P7 TEST P7 TEST FEEDBACK</p>	<p>Key Content:</p> <p>Biology B5.1 – Health and Disease B5.2 – Pathogens and Diseases B5.3 – Growing Bacteria in a lab B5.4 – Preventing bacterial growth B5.5 – Preventing infections B5.6 – Viral Diseases B5.7 – Bacterial Diseases B5.8 – Diseases caused by fungi and protists B5.9 human Defence Responses B5.10 – More about Plant Diseases B5.11 – Plant defence Responses B5 Test Feedback on B5 test B6.1 – Vaccination</p> <p>Chemistry Chemical changes REVISION C1-3 TEST FEEDBACK ON C1-3 TEST FEEDBACK ON C1-3 TEST C5.1 The Reactivity Series C5.2 Displacement Reactions C5.3 Extracting Metals C5.4 Salts from Metals C5.5 Salts from Insoluble Bases C5.6 Making More Salts C1-3 & c5 assessment Peer mark c1-3 & c5 assessment</p> <p>Physics Radioactivity P8.1 – Vectors & Scalars P8.2 – Forces between objects P8.3 – Resultant Forces P8.4 – Moments at Work P8.5 – More about Levers & Gears P8.6 – Centre of Mass P8.7 – Moments & Equilibrium P8.8 – The Parallelogram of Forces (H) P8.9 – Resolution of Forces P8 REVISION P8 TEST P8 TEST FEEDBACK P7 REVISION P7 QUIZ</p>	<p>Key Content:</p> <p>Biology Treating disease Non-Communicable Diseases B6.2 – Antibiotics and Painkillers B6.3 – Discovering Drugs B6.4 – Developing Drugs B6.5 – Making Monoclonal antibodies B6.6 – Uses monoclonal antibodies YEAR 10 ASSESSMENT WEEK B5 and B6 Test Feedback on B5 and B6 test B7.1 – Non-communicable Diseases B7.2 – Cancer B7.3 – Smoking and risk of diseases B7.4 – Diet, Exercise and Diseases</p> <p>Chemistry Electrolysis Energy changes C6.1 Introduction to Electrolysis C6.2 Changes at the Electrodes C6.3 Extraction of Aluminium C6.4 Electrolysis of Aqueous Solutions TESTS: C1-3 & C5-6 FEEDBACK ON C1-3 ASSESSMENT FEEDBACK ON C5-6 ASSESSMENT C7.1 Exothermic & Endothermic Reactions C7.2 Using Energy Transfers from Reactions C7.1 Exothermic & Endothermic Reactions C7.2 Using Energy Transfers from Reactions C7.3 Reaction Profiles C7.4 Bond Energy Calculations</p> <p>Physics Forces in Balance P9.1 – Speed/Time Graphs P9.1 - Distance/Time Graphs P9.2 – Velocity & Acceleration P9.3 More about V/T Graphs P9.4 – Analysing Motion Graphs P10.1 Force & Acceleration RP1 P10.1 Force & Acceleration RP2 P10.2 Weight & Terminal Velocity P10.3 Forces & Braking P10.4 Momentum (H) P10.5 Conservation of Momentum (H) P10.6 Impact Forces (H)</p>	<p>Key Content:</p> <p>Biology Photosynthesis B7.5 – Alcohol and other carcinogens REVISION B7 Test Feedback on B7 test B8.1 – Photosynthesis B8.2 – The Rate of Photosynthesis B8.3 – How plants use glucose B8.4 – Making the most of photosynthesis Revision B8 TEST FEEDBACK on test B8 B9.1 – Aerobic Respiration</p> <p>Chemistry Energy changes Chemical calculations C7.5 Chemical Cells & Batteries C7.6 Fuel Cells REVISION C1-3 REVISION C5-7 C1-3 ASSESSMENT C5-7 ASSESSMENT FEEDBACK ON C1-3 ASSESSMENT FEEDBACK ON C5-7 ASSESSMENT C4.1 Relative Masses & Moles C4.2 Equations & Calculations C4.3 Reacting Masses Calculations C4.4 Percentage Yield</p> <p>Physics Motion P10.7 Safety First (H) P10.8 Forces & Elasticity RP1 P10.8 Forces & Elasticity RP2 P9/10 REVISION P9/10 TEST P9/10 TEST FEEDBACK P11.1 Pressure & Surfaces P11.2/3 Pressure in a liquid (H)/ Atmospheric Pressure P11.4 Upthrust & Flotation (H) P9/10/11 REVISION Test Test feedback</p>	<p>Key Content:</p> <p>Biology Respiration B9.3 – Anaerobic Respiration B9.4 – Metabolism and the liver B8 and B9 test Feedback on B8 & B9 test REVISION FOR MOCKS MOCKS MOCKS FEEDBACK FROM MOCKS</p> <p>Chemistry Chemical calculations C4.5 Atom Economy C4.6 Expressing Concentrations C4.7 Titration Practical C4.8 Titration Calculations C4.9 Volumes of Gases REVISION C4 Y10 MOCK EXAMS: MONDAY 10TH – FRIDAY 21ST MAY Chemistry Paper 1 Y10 MOCK EXAMS: MONDAY 10TH – FRIDAY 21ST MAY Chemistry Paper 1 GO THROUGH MOCK PAPERS</p> <p>Physics Force and motion Force and pressure MOCK Exams P12.1 The nature of waves P12.2 The Properties of waves RP1 P12.2 The Properties of waves RP2 P12.3 Reflection & Refraction (H) P12.4 More about waves RP1 P12.4 More about waves RP2 MOCK EXAMS MOCK EXAMS MOCK EXAM REVIEW</p>	<p>Key Content:</p> <p>Biology The nervous system FEEDBACK ON MOCKS B10.1 – Principles of Homeostasis B10.2 – The Structure and function of the nervous system B10.3 Reflex Actions B10.4 – The Brain B10.5 – The Eye B10.6 – Common problems of the eye REVISION Revision B10 TEST FEEDBACK ON B10 TEST</p> <p>Chemistry Rates and equilibrium C8.1 Rates of Reaction C8.2 Collision Theory & Surface Area C8.3 The Effect of Temperature C8.4 The Effect of Concentration & Pressure C8.5 The Effect of Catalysts C8.6 Reversible Reactions C8.7 Energy & Reversible Reactions C8.8 Dynamic Equilibrium C8.9 Altering Conditions C8 REVISION C8 ASSESSMENT GO THROUGH C8 ASSESSMENT</p> <p>Physics Waves and properties Electromagnetic waves P12.5 Sound Waves (H) P12.6 Uses of Ultrasound (H) P12.7 Seismic Waves (H) P12 Revision P12 TEST P12 TEST FEEDBACK P13.1/2 EM Spectrum, Light, IR, microwaves & radio P13.3/4 Communications, UV, X-rays & gamma rays P13.5 X-rays in medicine P13 REVISION P13 TEST P13 TEST FEEDBACK</p> <p>End of Year Assessments</p>
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	Key Skills: Mathematical skills Recall of parts Use of practical technique Describing key processes Exam technique	Key Skills: Mathematical skills Relating Properties to Structure Use of practical technique Describing key processes Exam technique	Key Skills: Recall of Parts Balancing Symbol Equations Forces Calculations Investigative Skills Describing key processes Exam technique	Key Skills: Recall of Parts Describing key processes Forces Calculations Investigative Skills Exam technique	Key Skills: Recall of parts Describing key processes Mathematical skills Exam technique	Key Skills: Recall of parts Mathematical skills Describing key processes Exam technique
Year 9	Key Content: Cells Transport Mechanisms Pathogens and Disease Cell Division & Mitosis	Key Content: Energy Transfer Thermal Energy Atomic structure	Key Content: Atomic Structure The Periodic Table Mendeleev & The Development of the Periodic Table Energy transfer by heating	Key Content: Energy Resources Charge & Electricity	Key Content: Electricity in the Home Density Internal Energy & SLH Gas Temperature & Pressure	Key Content: The Digestive System Digestive Enzymes Food Tests End of Year Assessments
	Key Skills: Recall of parts Describing functions Use of Practical Technique Exam technique	Key Skills: Describing Key Processes Investigative Skills Energy Transfer Calculations Exam technique	Key Skills: Recall of Parts Exam technique Investigative Skills Developing Scientific Theory	Key Skills: Linking Properties to Structure Recall of Parts Mathematical Skills Exam technique	Key Skills: Recall of Parts Describing Key Processes Mathematical Skills Exam Technique	Key Skills: Recall of Parts Linking Properties to Structure Exam technique
Year 8	Key Content: Forces Pressure Magnetic Fields Electromagnets Work Done & Energy Energy Transfer	Key Content: Sound Waves Radiation & Energy Modelling Waves Atoms, Elements & Compounds Chemical Formulae Polymers The Periodic Table Groups 1, 7 and 0.	Key Content: Atoms in Chemical Reactions Combustion Thermal Decomposition Conservation of Mass Exothermic & Endothermic Reactions Energy Profile Diagrams The Carbon Cycle & Global Warming Extracting Metals & Recycling	Key Content: Gas Exchange Drugs, Alcohol & Smoking Nutrients & Food Tests Diet & The Digestive System Bacteria & Enzymes in Digestion Aerobic Respiration Anaerobic Respiration Photosynthesis	Key Content: Investigating Photosynthesis Plant Minerals Natural Selection Charles Darwin Extinction Preserving Biodiversity Inheritance DNA & Genetics	Key Content: Food Testing Investigation Stearic Acid, Colling Curve Hooke's Law Investigation End of Year Assessments Photosynthesis Investigation Thermal Decomposition Investigation Making Electromagnets Investigation
	Key Skills: Recall of parts and functions Linking Properties to Structure Describing Processes Use of Key Terminology Mathematical Calculations	Key Skills: Writing word equations Writing symbol equations Balancing Equations Use of Key Terminology Describing Key Concepts	Key Skills: Writing word equations Writing symbol equations Balancing Equations Use of Key Terminology Describing Key Concepts	Key Skills: Use of Evidence Use of Key Terminology Investigative Skills Describing Key Concepts Writing word & symbol equations	Key Skills: Use of Evidence Use of Key Terminology Investigative Skills Developing Scientific Theory Describing Key Concepts	Key Skills: Wave Calculations Energy Transfer Calculations Use of Key Terminology
Year 7	Key Content: Practical & Safety Skills for Science Forces Electricity	Key Content: Energy Waves – Sound & The Ear	Key Content: Light The Eye & Vision States of Matter Diffusion	Key Content: Separating Mixtures Chemical Reactions Acids & Alkalis Neutralisation	Key Content: Metals and Non-Metals Making Salts Displacement of Metals Structure of the Earth The Rock Cycle	Key Content: The Skeleton Movement and the Joints Cells Food Chains & Webs Flowers and Pollination End of Year Assessments

	Key Skills: Safety Carrying out investigations Forces calculations Recall of parts and functions Use of Key Terminology	Key Skills: Energy/Power Calculations Wave Calculations Use of Key Terminology	Key Skills: Wave calculations Recall of parts and functions Describing Processes Use of Key Terminology	Key Skills: Techniques for separating Use of Technical Equipment Use of Key Terminology	Key Skills: Investigative Skills Research Skills Describing Processes Use of Key Terminology	Key Skills: Recall of parts and functions Use of Key Terminology Use of Microscopes
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