

Topic		Content Learnt?	Review (/10)		
Cell St	Eructure  Eukaryotes and Prokaryotes  Animal and Plant Cells  Cell Specialisation  Cell Differentiation  Microscopy  Binary Fission				
•	RP 1: Microscopy				
Cell Di	vision Chromosomes Mitosis and Cell Cycle Stem Cells				
Transp	Dort in Cells Diffusion Osmosis Active Transport				
•	RP 3: Osmosis				
Princip •	oles of Organisation Cells, Tissues, Organs, Organ Systems				
•	Al Tissues, Organs and Organ Systems  Human Digestive System  Heart and Blood Vessels  Blood  Coronary Heart Disease  Health Issues  Lifestyle on Non-Communicable diseases  Cancer				
•	RP 4: Food Tests				
Plant	<b>Tissues, Organs and Systems</b> Plant Tissues Plant Organ System				
•	Nunicable Diseases Viral, Bacterial, Fungal, Protist Diseases Human Defence Systems Vaccination Antibiotics and Painkillers Discovery and Development of Drugs				
Mono	clonal Antibodies Producing Monoclonal Antibodies Uses of Monoclonal Antibodies				
Plant (	Disease Detection and Identification of Plant Diseases Plant Defence Responses				
Photos	synthesis Rate of Photosynthesis Uses of Glucose from Photosynthesis				
Respir	ation Aerobic and Anaerobic Respiration Responses to Exercise Metabolism				

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	The Human Nervous System  Structure and Function The Brain The Eye Control of Body Temperature				
	Hormonal Coordination in Humans  • Human Endocrine System • Control of Blood Glucose Concentration • Maintaining Water and Nitrogen Balance • Hormones in Human Reproduction • Contraception • Use of Hormones to treat infertility • Negative Feedback				
	Plant Hormones				
	RP 8: Effect of Light on Seedlings				
	Reproduction  Sexual and Asexual Reproduction  Meiosis  Advantages and Disadvantages of sexual/asexual reproduction  DNA and the Genome  DNA Structure  Genetic Inheritance  Inherited Disorders  Sex determination				
	<del>Variation and Evolution</del>				
	The Development of Understanding of Genetics and Evolution				
	Classification of Living Organisms				
-	Adaptations, Interdependence and Competition  Communities  Biotic and Abiotic Factors Adaptations				
	Organisation of an Ecosystem  Levels of Organisation How Materials are Cycled Decomposition Impact of Environmental Change				
	RP 9: Measuring Population Size in a Habitat				
	Biodiversity and the Impact of Human Interaction on Ecosystems  • Waste Management  • Land Use  • Deforestation  • Global Warming				
	Trophic Levels in an Ecosystem  - Pyramids of Biomass  Transfer of Biomass				
	Food Production  • Factors affecting Food security  • Farming Techniques  • Sustainable Fisheries  • Biotechnology				



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Atomic Structure  Atoms, Elements, Compounds and Mixtures  Development of the Model of the Atom Relative Charges and Mass of Atoms Relative Atomic Mass Electronic Structure				
The Periodic Table  Development of the Periodic Table  Metals and Non-metals  Groups 0,1,7 and their properties				
Properties of Transition Metals  • Comparison with Group 1 elements				
Chemical Bonds and Properties  Ionic Bonding and properties of Ionic Compounds Properties of Small Molecules Covalent Bonding and Giant Structures Metallic Bonding and their Conductivity Properties of Metals and Alloys Polymers				
Structure and Bonding of Carbon  Diamond Graphite Graphene and Fullerenes				
Nanoparticles				
Uses of Amount of Substance in Relation to Masses of Pure Substances  • Moles and Relative Formula Mass • Amount of Substances in Equations • Limiting Reactants • Concentration of Solutions • Amount of Substances in relation to volume of Gases  Percentage Yield and Atom Economy				
Reactivity of Metals      Metal Oxides     Reactivity Series     Extraction of Metals, Reduction and Oxidation				
Reactions of Acids  Reactions of Acids with Metals  Neutralisation of Acids and Salt Production  Soluble Salts  pH Scale Titrations Strong and Weak Acids				
RP 1: Soluble Salts				
RP 2: Titrations				
Electrolysis				
Exothermic and Endothermic Reactions  Reaction Profiles Bond Energies				
RP 4: Temperature Changes				
Chemical Cells and Fuel Cells				

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	Rate of Reaction      Calculating Rates of Reaction     Factors affecting Rate of Reaction     Collision Theory and Activation Energy     Catalysts				
	RP 5: Change of Concentration Affecting Rate of Reaction				
	Reversible Reactions and Dynamic Equilibrium				
	Carbon Compounds as Fuels and Feedstock				
	Reactions of Alkenes and Alcohols  • Alkenes and Alcohols  • Carboxylic Acids				
	Synthetic and Naturally Occurring Polymers				
	Pure Substances, Formulations and Chromatography				
	Identification of Common Gases  Tests for Hydrogen, Oxygen, Carbon Dioxide and Chlorine				
	Identification of Ions     Flame Tests (Lithium, Sodium, Potassium, Calcium, Copper)     Metal Hydroxide Tests (Calcium, Magnesium, Aluminium, Copper(II), Iron(II), Iron(III))     Tests for Carbonates, Sulfates and Halides     Instrumental Methods e.g. Flame Emission Spectroscopy				
	RP 7: Identifying Ions in Unknown Compounds				
	Composition and Evolution of the Earth's Atmosphere				
	Carbon Dioxide and Methane as Greenhouse Gases				
	Common Atmospheric Pollutants and their Sources  • Properties and Effects of Atmospheric Pollution				
	Using the Earth's Resources and Obtaining Potable Water  Sustainable Development  Potable Water and Waste Water Treatment  Alternative Methods of Extracting Metals				
	Life Cycle Assessment and Recycling  • Ways of reducing the use of resources				
	Using Materials				
	Haber Process and the Use of NPK Fertilisers				



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<ul> <li>Energy Changes in a System</li> <li>Energy Stores and Systems</li> <li>Power</li> </ul>					
Conservation and Dissipation of Energy <ul><li>Energy Transfers</li><li>Efficiency</li></ul>					
RP 2: Thermal Insulators					
National and Global Energy Resources					
Current, Potential Difference and Resistance					
Series and Parallel Circuits					
Domestic Uses and Safety					
Energy Transfers  • National Grid					
Static Electricity  • Electric Fields					
Changes of State and the Particle Model  • Density					
RP 5: Finding Densities of Objects					
Internal Energy and Energy Transfers  • Specific Heat Capacity  • Specific Latent Heat					
Particle Model and Pressure  • Pressure in Gases					
Atoms and Isotopes					
Atoms and Nuclear Radiation  Radioactive Decay  Nuclear Equations Half-Lives Radioactive Contamination					
Uses of Radioactive Materials and Background Radiation					
Nuclear Fission and Fusion					

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	Forces and their interactions				
	Work Done and Energy Transfer				
	Forces and Elasticity				
	Moments, Levers and Gears				
	Pressure and Pressure Differences in Fluids  • Atmospheric Pressure				
	Describing Motion along a line      Distance and Displacement     Speed and Velocity     Distance-time graphs     Acceleration				
	Newton's Laws of Motion  Newton's first, second and third Law Stopping Distance Reaction Time Factors affecting Braking Distance				
	Momentum      Conservation of Momentum     Changes in Momentum				
	Waves in Air, Fluids and Solids     Transverse and Longitudinal Waves     Properties of Waves     Reflection of Waves     Sound Waves     Waves for Detection and Exploration				
	RP 9: Reflection and Refraction				
	Electromagnetic Waves				
	Black Body Radiation				
	The Motor Effect				
	Induced Potential, Transformers and the National Grid				
	Solar system; stability of orbital motions; satellites  Life Cycle of a Star Orbital Motion, Natural and Artificial Satellites				
	Red-Shift				