

5-YEAR CURRICULUM PLAN

Curriculum at a Glance

Year 7

- 1. Fundamentals of Chemistry
- 2.Chemical Reactions
- 3. Forces and Space
- 4. Electricity
- 5. Cells and transport
- 6. The human Body

Year 8

- 1. The Periodic Table
- 2. Bonding
- 3. Energy
- 4. Waves
- 5. Plants
- 6. Genetics and Evolution

Year 9

- 1.Rates of Reaction
- 2. Earth and Atmosphere
- 3. Forces
- 4. Radiation
- 5. Cells and Transport
- 6. Organisation

Year 10

- 1. Atomic Structure and the periodic table
- 2. Quantitative and Chemical Change
- 3.Energy and Eelctricity
- 4. Particle model and radiation
- 5. Genetics and Homeostasis
- 6. Ecology

Year 11

- 1. Rates, Organic, Earth and Resources
- 2. Forces and Waves
- 3. Infection and Photosynthesis

5YR Curriculum Plan (Yr7-9)

	orking Scientifically					
haz app 2. V 3. R 4. M ran 5. T 6. T Che of C 7. S cha 8. P Sub moo Plot 9. H Scie 10. Alp 11. con 12. of s ana 14. Filti 15. Rocc 16. Rocc 16. Rocc 17. Chr 18.	Naming apparatus, azards, and risks of oparatus. Variables Representing Data Mean, median, mode, ange Types of Data and Graphs	Chemistry - Chemical Reactions 1. The Periodic Table (groups and periods, metals/non-metals) 2. Atomic mass and Number (PEN) 3. Naming compounds 4. Chemical Equations. 5. Chemical and Physical Changes 6. Exothermic and Endothermic 7. Exothermic or Endothermic Practical 8. Exothermic or Endothermic Practical – graph and analysis. 9. Catalyst effects 10. Types of exothermic and endothermic reactions 11. pH scale/Acids and Alkalis/indicators 12. Simple neutralisation reaction 13. Reactions of acids with alkalis 14. Neutralisation practical – Temperature Change with acid and alkali – set up 15. Neutralisation practical – Temperature Change with acid and alkali – carry out 16. Neutralisation practical – Temperature Change with acid and alkali – analysis and graph	Physics - Forces 1. Day and Night 2. Seasons 3. Our Solar System 4. Life cycle of stars 1 5. Life cycle of stars 2 6. Satellites 7. Investigating orbital motion part 1 8. Investigating orbital motion part 2 – graphs 9. Gravity, mass and weight 10. W= mg 11. 11. Contact and non-contact forces. 12. Resultant forces 13. Elastic and inelastic deformation 14. Hooke's Law Practical – set-up 15. Hooke's Law Practical – carry out 16. Hooke's Law Practical – graph and analysis of results 17. Atmospheric pressure 18. Pressure in liquids 19. P = F/A 20. Revision 21. Assessment	Physics - Electricity 1. Circuit Symbols 2. Series and Parallel circuits 3. Resistance 4. V = IR 5. Static electricity 6. Electric fields 7. Magnetic fields (attract/repel) 8. Plotting magnetic fields 9. Earth's Magnetism 10. Electromagnets 11. Electromagnets investigation (number of coils) 12. Electromagnets investigation (number of coils) 13. Uses of electromagnets 14. Revision 15. Assessment	Biology – Topic 1 Cells and Transport 1. Prokaryotes and eukaryotes 2. Animal Cells 3. Plant Cells 4. Microscopy 5. Microscopy Practical 6. Specialised Animal Cells 7. Specialised Plant Cells 8. Stem Cells 9. Diffusion 10. Osmosis 11. Active Transport 12. Surface area to volume ratio. 13. Revision 14. Revision/ Assessment Topic 2 – The Human Body 15. The Skeleton 16. Levels of organisation 17. Digestive System 1 18. Digestive System 2	Biology - Topic 2 – The Human Body 1. Enzyme structure 2. Digestive Enzymes 3. Villi 4. Healthy diet/ imbalances in diet 5. Food Tests 1 6. Food Tests 2 (midpoint) 7. The Lungs and Lung volume 8. Lung volume practical 9. The alveoli 10. Asthma and smoking 11. Drugs and alcohol 12. Aerobic Respiration 13. Anaerobic Respiration in humans and microorganisms 14. Exercise 15. Effect of exercise practical 16. Oxygen Debt Practical 17. Metabolism and energy (SI units) 18. Revision 19. Revision 20. Revision 21. Assessment

	19. Revision 20. Revision 21. Assessment	17. Reactions of acids with metals18. Revision19. Revision20. Revision21. Assessment				
NC	Working Scientifically The particulate nature of matter Pure and Impure substances Atoms elements and compounds	Energetics The Periodic Table Atoms, elements and compounds Chemical reactions	Motion and forces Space Physics	Electricity and electromagnetism	Cells and organisation Nutrition and digestion The skeletal and muscular system	Cellular respiration Nutrition and digestion Gas exchange systems Health
Powerful Knowledge and Careers	Brownian Motion and Particle discovery		Powers of ten – The scale of the universe	Life without electricity	The microscopic world	Vegans vs carnivores- life span?
Tier 3 Words	Discrete Continuous Risk Hazard Proton Neutron Electron Positive Negative Neutral Vacuum Kinetic Energy Atom Element Compound Mixture Chromatography Distillation Stationary Phase Mobile Phase Solvent Solute Solution Boiling Melting Evaporating Condensing Sublimation	Group Period Reactivity Halogen Alkali Metals Transition elements Noble Gases Exothermic Endothermic Acid Alkali Indicator Neutral PH Scale Catalyst Thermal	Acceleration Deceleration Gradient Relativity Newton Friction Air Resistance Velocity Moments Perpendicular Balanced Equilibrium Upthrust Moment Pascal Work Done Elastic Inelastic Satellite Moon Planet Star Galaxy Comet Asteroid Orbit Elliptical Deformation	Magnetic Field Electric Field Electromagnet Solenoid Pole Compass Current Amps Potential Difference Volts Charge Electron Negative Positive Conventional Current Conductor Insulator Ammeter Voltmeter Series Parallel Resistance Ohms	Cytoplasm Membrane Mitochondria Respiration Multicellular Unicellular Flagellum Vacuole Nucleus Prokaryotic Eukaryotic Plasmid Aerobic Diffusion Osmosis Digestion Emulsification Faeces Egestion Enzymes Proteins Carbohydrates Oesophagus Intestine Pancreas Bile Skeletal	Absorption Mitochondria Aerobic Anaerobic Villi Lipase Protease Carbohydrase Active Site Denature Trachea Bronchi Bronchioles Alveoli Lipids Proteins Amino-Acids Obesity Scurvy Deficiency Iodine Biuret Benedicts

Long Term Retrieval	Temperature Condenser Fractional KS2 Chemistry Topics:	 Working Scientifically 1 the particulate nature of matter Pure and Impure substances Atoms elements and compounds 	Gravity Nebula Fusion White Dwarf Red Giant Neutron Star Black Hole Supernova KS2 Physics Topics: Energetics The Periodic Table Atoms, elements and compounds Chemical reaction	Working Scientifically 1 the particulate nature of matter Pure and Impure substances Atoms elements and compounds Motion and forces Space Physics	 KS2 Physics Topics: Energetics The Periodic Table Atoms, elements and compounds Chemical reaction Electricity and electromagnetism 	Cells and transport Working Scientifically 1 the particulate nature of matter Pure and Impure substances Atoms elements and compounds Motion and forces Space Physics Cells and organisation Nutrition and digestion The skeletal and
Assessment Details	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed)	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed)	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed)	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed)	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed)	muscular system Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) End of year mock: 60 Marks (teacher assessed)
Misconceptions		Neutrons are negative PEN / PNE	Why we have day and night Sun as a star Newtons first Law	All metals are magnetic Magnetic north is a north pole Current is used up as you go round a circuit	Mitochondria make energy Nucleus is the brain of the cell Cell membrane vs cell wall	Respiration is breathing
Homework	Homework booklet: Fundamentals of Chemistry	Homework booklet: Chemical Reactions	Homework booklet: Forces and space	Homework booklet: Electricity and electromagnetism	Homework booklet Cells and Transport	Homework booklet: The Human Body

Year 8 Topic Covered and End Points	Working Scientifically 1. Prediction and Hypothesis 2. Planning an Investigation — Method 3. Types of error 4. Uncertainty 5. Analysing data 6. Drawing conclusions Chemistry - The Periodic Table 7. Electron configuration 8. Formation of ions 9. Balancing Equations 10. Balancing Equations 11. History of the Periodic Table 12. Properties of metals 13. Group 1 — Trends and Properties 14. Group 1 — Reactions with oxygen and chlorine. 15. Group 1 — reactions with water 16. Group 0 17. Group 7 — Trends and properties 18. Group 7 — Displacement 19. Group 7 — Displacement	Chemistry: Bonding 1. Ionic Bonding 2. Ionic Bonding 3. Metallic bonding 4. Covalent bonding 5. Covalent bonding 6. Hydrocarbons and crude oil 7. Alkanes 8. Alkenes 9. Properties of hydrocarbons 10. Fractional Distillation of hydrocarbons 11. Complete and incomplete combustion of hydrocarbons (balancing) 12. Complete and incomplete combustion of hydrocarbons (balancing) 13. Pollution from fuels 14. Gas tests 15. Flame tests	out 10. Insulation Practical –	Transverse and longitudinal waves 2. Properties of Sound waves 3. Detecting Sound 4. Ultrasound 5. Properties of Light waves 6. Reflection 7. Imaging in mirrors 8. Refraction 9. Human Eye 10. Lenses 11. Colour 12. Colour 13. Revision 14. Revision 15. Assessment	1. Plant Reproduction/ structure of flower 2. Seed Dispersal 3. Seed and Gene Banks 4. Photosynthesis 5. Structure of the Leaf 6. Structure of the Leaf and Stomata 7. Limiting Factors of Photosynthesis (graphs) 8. Rate of Photosynthesis Practical Part 1 9. Photosynthesis Practical Part 2 10. Translocation 11. Testing a leaf for starch 11. Transpiration 12. Factors affecting transpiration	Biology: genetics and evolution 1. Puberty 2. Male and female reproductive organs 3. Menstrual Cycle with hormones 4. Sexual vs Asexual reproduction 5. Structure of DNA 6. History of DNA 7. Alleles 8. Punnett Squares 9. Variation (graphs) 10. Variation (graphs) 11. Darwin and Doudna 12. Natural Selection 13. Competition and Interdependence 14. Bioaccumulation 15. Adaptations Part 1 16. Adaptations Part 2 17. Biodiversity 18. Maintaining Biodiversity 19. Extinction
NC	Working Scientifically The Periodic table Atoms, Elements and compounds	Chemical reactions	Energy Matter	Waves	Reproduction Material cycles and energy	Relationships in an ecosystem Genetics
Powerful Knowledge and Careers	History of the periodic table	Mans impact on the environment Carbon Monoxide the silent killer	Conservation of energy	Pinhole Camera How we see colour	Life without plants	History of DNA Misconceptions of evolution

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Tier 3 Vocab	Proton	Homologous	Work Done	Oscillation	Ovule	Progesterone
	Neutron	Graphite	Conservation	Ultrasound	Pollen	Oestrogen
	Electron	Graphene	Dissipated	Ossicles	Dispersal	Luteinising Hormone
	Vacuum	Fullerene	Thermal	Auditory	Pollination	Follicle
	Transition	Alkane	Kinetic	Vacuum	Stamen	Ovary
	Element	Alkene	Gravitational	Diffuse	Anther	Urethra
	Oxide	hydrogenated	Elastic	Specular	Filament	Fallopian
	Chloride	Plankton	Electrical	Cornea	Pollen	Duct
	Flouride	Oxidised	Chemical	Iris	Epidermis	Double Helix
	Halide	Electron Shell	Joule	Suspensory	Palisade	Polymer
	Alkali	Distillation	Conductivity	Ligament	Translocation	Nucleotide
	·	Smog	Latent	Retina	Transpiration	Base Pair
	Reactivity	Particulates	Displacement	Lens	Xylem	Clone
	Displacement	Pressure	Volume	Medium	Phloem	Meiosis
	Halogen	Finite	Power	Normal	Endothermic	Mitosis
	Shielding	Non-renewable	Conduction		Mesophyll	Variation
	Sonorous		Convection		Cuticle	Evolution
	Malleable		Radiation		Germination	Adaptation
	Ductile		Density			Homozygous
	Ionised					Heterozygous
	Positive					Phenotype
	Negative					Genotype
	regative					
Long Term Retrieval	Motion and forces	- Manding	. Manulaine	Motion and forces	Working	Motion and forces
Long Term Kethevar		Working Scientifically	Working Scientifically		Working	
	Space Physics	Scientifically	Scientifically	Space Physics	Scientifically	Space Physics
	Cells and	the particulate	the particulate	Cells and	the particulate	Cells and
	organisation	nature of matter	nature of matter	organisation	nature of matter	organisation
	 Nutrition and 	Pure and Impure	Pure and Impure	 Nutrition and 	Pure and Impure	 Nutrition and
	digestion	substances	substances	digestion	substances	digestion
	 The skeletal and 	 Atoms elements 	 Atoms elements 	 The skeletal and 	 Atoms elements 	 The skeletal and
	muscular system	and compounds	and compounds	muscular system	and compounds	muscular system
	 Cellular 	 The periodic table 	 The periodic table 	 Cellular 	 The periodic table 	 Cellular
	respiration		•	respiration	 Working 	respiration
	 Nutrition and 			 Nutrition and 	Scientifically	 Nutrition and
	digestion			digestion	 the particulate 	digestion
	Gas exchange			Gas exchange	nature of matter	 Gas exchange
	systems			systems	 Pure and Impure 	systems
	Health			Health	substances	Health
	• пеанн				 Atoms elements 	
				 Physics - energy 	and compounds	 Physics – energy
					 The periodic table 	Plants
					 Physics Waves 	
					,	
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Assessed) Mid: 30 Mark Written (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) End: 30 Ma							I
Misconceptions Homework booklet: The Periodic Table Bonding Working Scientifically Topic Covered and End Points Base and Peer Review Begrout Cubility. Literrogate resources/journals Finetrogate resources/journals Finetrogating Finetrogate resources/journals Finetrogating Finetrogate resources/journals Finetrogating Finetrogate resources/journals Finetrogating Finetrogate resources/finetrogate	Assessment details	Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher	Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher	Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher	Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher	Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher	Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) End of year mock: 60 Marks
The Periodic Table Bonding Energy Waves Plants Genetics and Evolution	·			destroyed	not the energy		Humans evolved from monkeys
Topic Covered and End Points 1. Theory vs Law 2. Bias and Peer Review 3. Repetability vs Reproducibility. 4. Interrogate resources/journals 5. Interrogate resources/journals 6. Interrogate resources/journals 7. Exothermic and Endothermic Reactions 7. Exothermic Reactions 7. Exothermic and Endothermic Reactions 7. Exothermic and Endothermic Reactions 8. Factors that affect rates of reaction 12. Iodine clock practical est up 11. Scalar and Vectors 2. Calculating speed 3. Maggot racing 3. Maggot racing 5. dift graphs 6. dift graphs 7. V/f graphs 6. Alfalfalfe 7. V/f graphs 6. Recycling 7. Extracting metals with displacement/ reactivity series 9. Factors that affect rates of reaction 12. Iodine clock practical est up 11. Vising graphs to calculate rate of reaction 12. Iodine clock practical est up 13. Jodine clock practical – set up 13. Jodine clock practical – 13. Iodine clock practical – 14. Greenhouse effect 2 Earth and the Atmosphere 1. Scalar and Vectors 2. Calculating speed 3. Maggot racing 3. Maggot racing 5. dift graphs 6. dift graphs 6. dift graphs 7. V/f graphs 6. dift graphs 7. V/g graphs 7. Nuclear fusion 7. Re- microscopy 8. RP - microscopy 8. RP - microscopy 9. Nations 7. Separation fusion 7. Exponesis 7. V. Transpicration	Homework						
	Topic Covered and End Points	1. Theory vs Law 2. Bias and Peer Review 3. Repeatability vs Reproducibility. 4. Interrogate resources/journals 5. Interrogate resources/journals 6. Interrogate resources/journals 6. Interrogate resources/journals 7. Exothermic and Endothermic Reactions 8. Factors that affect rates of reactions 9. Factors that affect rates of reaction 10. Rate graphs 11. Using graphs to calculate rate of reaction 12. Iodine clock practical – set up 13. Iodine clock practical –	Earth and the Atmosphere 1. Earth structure and composition – rock types and rock cycle 2. Earths resources 3. Potable Water 4. Wastewater treatment 5. Ceramics, composites, and polymers 6. Recycling 7. Extracting metals with displacement/ reactivity series 8. Extracting metals with displacement/ reactivity series 9. Earth's atmosphere (pie charts) 10. Changes to the Earth's atmosphere. 11. Fossil fuels 1 12. Fossil fuels 2 13. Greenhouse effect 1 14. Greenhouse effect 2	1. Scalar and Vectors 2. Calculating speed 3. Maggot racing 4. Maggot racing 5. d/t graphs 6. d/t graphs 7. v/t graphs 8. v/t graphs 9. Acceleration 10. Newtons 1st Law 11. Newtons 2nd Law 12. Newtons 3rd Law 13. Acceleration (ramp practical) 14. Acceleration (ramp practical) 15. Acceleration (ramp	1. Transverse and longitudinal waves 2. Electromagnetic spectrum 3. Uses of EM waves 4. Alpha, beta, gamma 5. Nuclear equations 6. Half-life 7. Nuclear fusion 8. Nuclear fission 9. Nuclear fission 10. Reducing risks of radiation 11. Uses of radiation 12. Chernobyl – interrogating resources 13. Chernobyl –	1. Eukaryotes, prokaryotes, animal cells and plant cells. 2. Size of cells and order of magnitude 3. Stem cells 4. Specialised animal cells 5. Specialised plant cells 6. Microscopy 7. RP – microscopy 8. RP - microscopy 9. Mitosis 10. Diffusion 11. Surface area to volume ratio 12. Osmosis 13. RP - Osmosis 14. RP - Osmosis 15. Active transport 16. Assessment. 17. Digestive system and enzymes	1. RP – Enzyme Activity 2. RP – Enzyme Activity 3. RP – Food test 4. RP – Food test. 5. The Heart 6. Arteries, veins and capillaries, AND blood. 7. Cardiovascular disease 8. Villi and Alveoli 9. Cancer 10. Communicable and noncommunicable disease 11.Correlating risk factors 12. Lifestyle and disease 13. Plant tissues 14. Transpiration and Translocation 15. Factors affecting

	14. lodine clock practical – analysis and graphs 15. Investigating how surface area affects ROR. 16. Investigating how surface area affects ROR. 17. Investigating how surface area affects ROR.	16. Carbon cycle part 1 17. Carbon cycle part 2				
NC / AQA	Working Scientifically Chemical Reastion	Materials Earth and Atmosphere	Forces and motion	<u>Waves</u>	B1	B1
Powerful Knowledge and Careers	How scientific ideas are validated?	History of the formation of the earth and the moon Extinction of the dinosaurs Impact of climate change	Scalars and vectors Terminator 2 v/t analysis	How the Chernobyl disaster occurred and the impact over time	Ethics of stem cells	What will I die from?
Tier 3 Vocab	Observation Hypothesis Peer-review Prediction Bias Ethics Collision Surface-Area Rate Concentration Pressure Catalyst Frequency Syringe Precipitate Mass Balance Tangent Reactant Product	Combustion Filtration Sedimentation Sterilisation Wavelength Absorption Reverse Osmosis Membrane Particulates Hydrocarbons Carbon Monoxide Carbon Dioxide Algae Condensed Sedimentary Igneous Metamorphic Impurity	Equilibrium Balanced Equal Opposite Scalar Vector Bearing Magnitude Force Velocity Temperature Displacement Distance Contact Speed Attraction Repulsion Accelerate Decelerate Gradient Stationary Terminal Velocity	Alpha Beta Gamma Irradiation Contamination Count Rate Becquerel Unstable Penetration Ionisation Radioactivity Half-life Mutation Cancer	Magnification Nucleus Plasmid Prokaryotic Eukaryotic DNA Specialised Concentration Gradient Energy Diffusion Bone Marrow Ethical Osmosis Permeable Membrane Minerals Molecules Meristem Embryonic Clone Differentiated Undifferentiated Neurone Mitochondria Multicellular Flagellum Resolution	Atrium Ventricle Aorta Vena Cava Pulmonary Oxygenated Cardiovascular Exposure Deoxygenated Stent Statin Cholesterol Cardiac Oxygen Villi Villus Capillary Lumen Exchange Surface Artery Vein Haemoglobin Immune Antibodies Antitoxin Phagocytosic

					Subcelluar	Microorganism Communicable Valve Mechanical Obesity Radiation Malignant Benign Epidermis Palisade Translocation Transpiration Xylem Phloem Endothermic Mesophyll Cuticle
Long Term Retrieval	Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Physics Waves Genetics and evolution	 Motion and forces Space Physics Cells and organisation Nutrition and digestion The skeletal and muscular system Cellular respiration Nutrition and digestion Gas exchange systems Health Physics – energy Plants Rates of Reaction 	 Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Physics Waves Genetics and evolution The earth and the atmosphere 	 Motion and forces Space Physics Cells and organisation Nutrition and digestion The skeletal and muscular system Cellular respiration Nutrition and digestion Gas exchange systems Health Physics – energy Plants Rates of Reaction Forces 	Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Working Scientifically the particulate nature of matter Pure and Impure substances Atoms elements and compounds The periodic table Physics Waves Genetics and evolution The earth and the atmosphere Radiation	 Motion and forces Space Physics Cells and organisation Nutrition and digestion The skeletal and muscular system Cellular respiration Nutrition and digestion Gas exchange systems Health Physics – energy Plants Rates of Reaction Forces Cells GCSE
Assessment Details	Initial: 20 Mark Hinge (Self Assessed)	Initial: 20 Mark Hinge (Self Assessed)	Initial: 20 Mark Hinge (Self Assessed)	Initial: 20 Mark Hinge (Self Assessed)	Initial: 20 Mark Hinge (Self Assessed)	Initial: 20 Mark Hinge (Self Assessed)

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Misconceptions			Speed and velocity	Radiation causes cancer not increases the probability	Gaps in solids liquids and gases increases linearly	Biurets and benedict's
			Distance and displacement		Meiosis vs Mitosis	Smoking causes cancer
Homework	Homework booklet: Rates of Reaction	Homework booklet: Earth and the Atmosphere	Homework booklet: Forces	Homework booklet: Radiation	Homework booklet: B1 Part 1 -Cells	Homework booklet: B1 Part 2 - Organisation

5YR Curriculum Plan Yr10-11

Focus / Term	Half Term One	Half Term Two	Half Term Three	Half Term Four	Half Term Five	Half Term Six
Year 10	C1	C1	P1	P1	B2	B2 – 35 lessons
Topic Covered and End	Atomic structure and					
Points	periodic table	1. Calculating moles of an	1. Energy Transfers in a	1. National grid	1. Sexual and asexual	1. Food chains and
		element AND a compound	pendulum / bungee jumper	2. Assessment	reproduction	predator prey cycles
		(H)	2. Kinetic Energy	Particle Model of Matter	2. Meiosis and fertilisation	2. Sampling organisms AND
	1. Elements, compounds	2. Calculating mass of a	3. Gravitational Potential	3. Density	3.DNA and the Genome	mean, median and mode.
	and mixtures.	number of moles (H)	Energy	4. RP 5 – Density	4.Alleles	3.RP 9 –Sampling
	2. Interpreting chemical	3. Using moles to balance	4. Elastic Potential Energy	5. RP 5 – Density	5.Cystic Fibrosis	organisms
	formula	equations (H)	5. Specific Heat Capacity	6. Internal Energy AND	6.Polydactyly	4.RP 9 – Sampling
	3. Filtration and	4. Avogadro's constant (2)	6. RP 1 – Specific Heat	Heating and cooling graphs	7.Family Trees	organisms
	Crystallisation	(H)	Capacity	7. Specific Latent Heat	8.Inheritance of Sex	5.RP 9 – Sampling
	4. Simple Distillation	5. Reacting masses (2) (H)	7. RP 1 – Specific Heat	8. Particle motion in gases	9.Variation	techniques – mid-point
	5. Fractional Distillation	6. Limiting reactant (2) (H)	Capacity	ATOMIC STRUCTURE	10.Evolution by natural	6. The Carbon Cycle
	6. Chromatography	7. Concentration of	8. Work done by a force	9. Atomic Structure	selection	7. The Water Cycle
	7. Alpha Scattering	solutions	9. Calculating Power	(Atomic mass and	11.Selective Breeding	8. Biodiversity
	8. Nuclear Model	8. Assessment	10. Efficiency	number/alpha scattering	12.Genetic Engineering	9. Waste management
	9. Atomic Number/Mass	Chemical Changes	11. Cooling of buildings	skipped due to being	13.Fossils	10. Land use
	mass and RAM (2)	9. Reactivity of metals AND	12. Energy from fossil fuels	covered in C1)	14.Antibiotic resistance	11. Global warming
	10. Electron structure	reactivity series (2)	13. Nuclear Energy	10. Radioactivity.	15.Classification	12. Maintaining
	11. Development of	10. Extraction of metals	14. UK Energy Mix	11. Properties of alpha,	16.Assessment	biodiversity
	periodic table	11. Oxidation and reduction	15. Renewable Energy	beta and gamma.	17.Homeostasis	
	12. Group 0	12. Acids and Alkalis	Resources	12. Nuclear equations	18.Nervous System	
	13. Metals	13. Acids and metals (2)	16. Renewable energy	13. Half-life	19.RP 7 – Reaction time	
	14. Group 1(2)		resources	14. Half-life practical	20.RP 7 – Reaction time	

	15. Group 7 (2) 16. Group 7 17. Assessment Structure and Bonding 18. States of matter 19. Ionic bonding (2) 20. Properties of ionic bonding 21. Covalent bonding (2) 22. Covalent bonding 23. Properties of small covalent compounds 24. Diamond and Silicon Dioxide 25. Graphite 26. Graphene and Fullerenes 27. Bonding in polymers 28. Metals and Alloys 29. Limitations of bonding 30. Assessment Quantitative 31. Conservation of mass 32. Charges of ions and formula of ionic compounds 33. Relative Formula Mass / Calculating percentage by mass 34. Relative Formula Mass / Calculating moles of an element AND a compound	14. Three reactions of acids 15. RP1 – Soluble Salts 16. RP1 – Soluble Salts 17. Strong and weak acids 18. Introducing electrolysis 19. Electrolysis of Aluminium oxide 20. Electrolysis of Aqueous Solutions (2) 21. RP 3– Electrolysis 22. RP 3 – Electrolysis 23. Assessment 24. Exothermic and Endothermic 25. Bond energy calcs 26. Bond energy calcs 27. RP – Temperature changes 28. RP – Temperature changes	17. Assessment. 18. Current in series AND current in parallel 19. Potential difference in series AND parallel 20. Potential Difference in batteries 21. Charge in circuits 22. Calculating energy transfers 23. Resistance and Resistors 24. Resistance in a filament lamp 25. Diodes and LED 26. Resistors in series and parallel 27. LDRS's 28. Thermistor 29. RP 3 – Resistance 30. RP 3 – Resistance 31. RP 4 – VI Characteristics 32. Energy transfer in Appliances AND calculating energy transfers 33. Power of components 34. AC/DC 35. Mains Electricity	15. Irradiation and contamination 16. Revision 17. Revision 18. Revision 19. Revision	21.Endocrine system 22.Controlling blood glucose 23. The Menstrual Cycle 24.Contraception 25.Hormones to treat infertility (H) 26.Negative feedback (H) 27.Assessment 28.Competition and interdependence 29.Biotic and abiotic factors 30.Adaptations	
AQA	C1	C1	P1	P1	B2	В2
Powerful Knowledge and Careers	Just how small is an atom?	What is a mole?	Pendulum Energy changes Energy changes in an old house	The most painful death on earth	Can humans reproduce asexually?	Polar bear habitat – climate change
Tier 3 Vocab	Element Compound Molecule Mixture Chromatography Stationary Phase	Mole Mass Concentration Constant Acid Alkali	Current Amps Potential Difference Volts Charge Electron	Alpha Beta Gamma Irradiation Contamination Count Rate	Progesterone Oestrogen Luteinising Hormone Follicle Ovary Urethra	Predator Prey Consumer Producer Trophic

Mobile	Phase Base	Nogativo	Becquerel	Eallonian	Herbivore
Filtrat		Negative Positive	Unstable	Fallopian Duct	Carnivore
			Penetration		
Solve Solu		Conventional Current		Double Helix	Primary
		Conductor	Ionisation	Polymer	Secondary
Solut		Insulator	Radioactivity	Nucleotide	Tertiary
Crystalis		Ammeter	Half-life	Base Pair	Population
Distilla		Voltmeter	Mutation	Clone	Community
Vacu		Series	Cancer	Meiosis	Predator
Deflec		Parallel	Mass	Mitosis	Prey
Reflec	·	Resistance	Volume	Variation	Ecosystem
Relat	•	Ohms	Latent	Evolution	Habitat
Ma		Thermal Conductivity	Vaporisation	Adaptation	Quadrat
Noble	_	Decommission	Condensation	Homozygous	Organism
Halog	_	Directly proportional	Pressure	Heterozygous	Respiration
Hali		Ohmic	Collisions	Phenotype	Decomposer
Free Ele		Power	Irregular	Genotype	Photosynthesis
Fuller			Collide	Fertilisation	Extremophile
Polyr	mer			Gamete	Precipitate
Coval	lent			Recessive	Aquifer
Deloca	alised			Genome	Evaporate
Ionic la	attice			Dominant	Microorganism
Intermo	lecular			Allele	Biodiversity
Melt	ing			Menstruation	Decay
Boili	ing			Uterus	Deforestation
Conserv	vation			Selective Breeding	
Posit	tive			Natural Selection	
Stro	ong			Embryo	
Wea	_			Neurone	
Bor	nd			Motor	
Form	nula			Synapse	
Electron	n Shell			Sensory	
Mass Nu	umber			Reflex	
Atomic N	Number			Relay	
Condu	ction			Hormone	
Char				Insulin	
Nanot				Diabetes	
				Barrier	
				Biotic	
				Abiotic	
				Competition	
				Interdependence	
				Environment	
				Pathogen	
				Glucagon	
				Glycogen	
				Insulin	

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Misconceptions		Refraction explanation vs required practical description	All bacteria have negative consequences Antibiotics kill viruses	Gamma is most ionising type of radiation		Fungi are plants Arrows in food chains
Homework	Homework booklet: C1 part one: The periodic table and bonding	Homework booklet: C1 part 2: Quantitative and chemical change	Homework booklet: P1 part 1: Energy and electricity	Homework booklet: P1 Part 2: Particle Model and Radiation	Homework booklet: B2 part 1: Genetics and Homeostasis	Homework booklet B2 part 2: Ecology
Year 11 Topic Covered and End Points	ROR AND temperature AND catalyst. 7. Reversible Reactions 8. Concentration and Rate of Reaction AND pressure and rate of reaction. (H)	P2 – 35 lessons 1. Scalars and vector AND contact and non-contact forces 2. Gravity and weight 3. Resultant forces 4. Vector diagrams (H) 5. Vector diagrams (H) 6. Resolving forces (H) 7. Resolving forces (H) 8. Work done and energy transfer 9. Forces and elasticity 10. RP 6 – Stretching a spring 11. RP 6 – Stretching a spring 12. Speed 13. Velocity 14. Distance/time graphs 15. Acceleration 16. Acceleration 16. Acceleration 21. Newtons 1st Law 18. Newtons 2nd Law 19. Newtons 3rd Law 20. RP 7 – Acceleration 21. RP 7 – Acceleration 22. Vehicle stopping distance 23. Forces and braking 24. Momentum (H) 25. Assessment 26. Transverse and longitudinal 27. Properties of waves	2 – 35 lessons 1. RP 10 – Infrared 2. RP 10 – Infrared 3. Permanent and induced magnets 4. Magnetic fields 5. Electromagnets 6. The Motor effect (H) 7. Electric Motor (H) 8. Revision 9. Revision 10. Revision 11. Revision 12. Revision 13. P2 MOCK B1 Completion 14. Pathogens, measles and HIV 15. Salmonella and gonorrhoea AND malaria 16. Non-specific defences 17. Immune system 18. Vaccination 19. Infectious diseases in plants 20. Antibiotic 21. Testing medicines 22. Photosynthesis 10. Uses of glucose 23. RP 6 – Photosynthesis 24. RP 6 - Photosynthesis 25. Limiting factors 26. Limiting factors 27. Respiration 28. Exercise			

	22. Greenhouse effect 23. Climate change AND carbon footprint 24. Pollutants from fuels USING RESOURCES 25. Using Earth's resources 26. RP – Water 27. RP – Water 28. Potable Water AND Wastewater 29. Alternative method of extracting metals (H) 30. Life Cycle Assessments 31. Recycling	28. Wave equation 29. RP 8 – Ripple Tank 30. RP 8 – Ripple Tank 31. RP 8 – Waves in a solid 32. RP 8 – Waves in a solid 33. EM waves 34. Uses of EM waves 35. Refraction of waves	29. Metabolism		
AQA	C2	P2	B2		
Powerful Knowledge and Careers	N/A	N/A	N/A		
Tier 3 Vocab	Collision Surface-Area Rate Concentration Pressure Catalyst Frequency Syringe Precipitate Mass Balance Tangent Reactant Product Cracking Volatility	Equilibrium Balanced Equal Opposite Scalar Vector Bearing Magnitude Force Velocity Temperature Displacement Distance Contact Speed	Photosynthesis Metabolism Communicable Disease Vector Vaccine Bacteria Virus Antibiotic Protist Mucus Cillia Discharge Phagocytosis Pathogen		
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Assessment Details	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) Full mock as per qualification and assessment cycle	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) Full mock as per qualification and assessment cycle	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) Full mock as per qualification and assessment cycle	Initial: 20 Mark Hinge (Self Assessed) Mid: 30 Mark Written (Self Assessed) End: 30 Mark (Teacher Assessed) Full mock as per qualification and assessment cycle	ı	
Homework	Homework booklet: Chemistry full curriculum so far	Homework booklet: Physics full curriculum so far	Homework booklet Biology full curriculum so far			