Subject: Science Year group: Seven Exam board: AQA KS3 SOW

Summer Term: April-July 24

For all topics Useful Resources: Seneca learning, BBC Bitesize, CGP Revision guides workbooks and revision guides, Collins AQA KS3 Revision Guides

Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions.

Class	Teacher One	Teacher Two	Teacher Three
7G1	Mrs Gorley Organisms 1	Mr Abbey Reactions 1.	Mr Shastan Waves 1
7G2	Ms Shankar Earth 1	Ms Yasin Ecology 1 Test and then Organisms 1	Mr Duverge Forces 1
7G3	Mr Abbey Reactions 1	Mr Duverge Waves 1	Mr Shastan Forces 1
7G4	Ms Yorke Waves 1	Mr Gorley Forces 1	Mr Koyama Earth 1
701	Ms Yorke Complete Particles and then Reactions 1	Mr Shastan Complete energy and then Waves 1	
702	Ms Shankar Complete energy and then Reactions 1	Mr Joseph Complete Particles and then Organisms 1	
703	Mrs Gorley Complete energy and then Reactions 1	Ms Yasin Genes Test and then Organisms 1	Mr Duverge Complete Particles of Matter and Waves 1
704	Mrs Gorley Complete energy and Reactions 1	Mr Duverge Complete Particles of Matter and Waves 1	Mr Koyama Genes 1
705	Mr Abbey Complete energy and Waves 1	Mr Shastan Organisms 1	Ms Yorke Earth 1

Topic	Organisms 1	Reactions 1	Waves 1	Forces 1	Earth 1	Genes 1	Particles 1
Key content	Skeleton Muscles Joints Cells-types and specialised Uni cellular organisms Organ systems and Multicellular organisms	Physical and chemical properties of metals and non-metals. Chemical change Chemical reaction such as reactions of acids with some metals, oxidation and displacement reactions. Particle diagrams and word equations Reactivity Series Displacement Acids and Alkalis pH, *indicators and neutralisation.	Sound produced by vibrations of objects. Frequencies of sound Waves transferring information. sound needs a medium to travel, the speed of sound in air, in water, in solids. Echoes, reflection and absorption of sound The transmission of light through materials Use of the ray model Colour and the different frequencies of light	Forces – examples Balanced and Unbalanced forces Forces and speed Speed calculation. Time/distance graphs Measuring speed Factors affecting speed. Forces Gravitational field Calculating gravity	types of rocks rock cycle. movement of the sun and moon stars and space	Variation Causes of variation Importance of variation Female and male reproductive systems Importance of fertility Pregnancy Factors affecting pregnancy	The Particle Model Properties of solids liquids and gases Changes of state Solutions and Suspensions Separating Mixtures
Key words	Joints Bone Marrow Ligaments Tendons Cartilage Antagonistic muscle pair Cell Uni-cellular Multi-cellular Tissue Organ Diffusion Structural adaptations Cell membrane Nucleus Vacuole Mitochondria Cell wall Chloroplasts Cytoplasm Muscular skeletal system	Metals Non-metals Displacement Oxidation Reactivity pH Indicators Base Concentration.	Vibration Longitudinal wave Volume Pitch Amplitude Wavelength Frequency Vacuum Oscilloscope Absorption Auditory range Echo Incident ray Reflected ray. Normal line Angle of reflection Angle of incidence Réfraction Absorption Scattering Convex Lens Concave Lens Retina	Speed Average speed Relative motion Acceleration Weight Non-contact force Mass Gravitational field strength, g: Field	Rock cycle Weathering Erosion Minerals Sedimentary rocks Igneous rocks Metamorphic rocks Strata Galaxy Light year Stars Orbit Exoplanet	Species Variation Continuous variation Discontinuous variatio6n Gamete Fertilisation Ovary Testicle Oviduct, or fallopian tube Uterus, or womb Menstruation Reproductive system Penis Vagina Foetus Gestation Placenta Amniotic fluid Umbilical cord	Particle Particle model Diffusion Gas pressure Density Evaporate Boil Condense Melt Freeze Sublime Solvent Solute Dissolve Solution Soluble (insoluble) Solubility Pure substance Mixture Filtration Distillation Evaporation Chromatography:
Assessment Opportunities	AFL Task: Make a model cell and complete the w/s Practical: Pepper Cells AFL TASK: Specialised Cells End of Topic Test	AFL Task on Materials Practical on Concentration of acid affecting volume of gas produced. Farmer Jack AFL Task End of topic test	AFL Task: Designing Ear defenders. Practical: Investigating Shadows Afl Task: Microscopes and pinhole camera's End of Topic Test	AFL TASK: Need for Speed Practical: Measuring the speed of objects AFL TASK: Gravity and Space End of Unit Test	AFL Task Rock Cycle Practical erosion of sugar cubes Afl Task Patterns in data End of Topic /Test	AFL Task on Twin Studies Practical: Variation in Peas Afl Task: Reproduction End of Unit Test	AFLTASK: Poster on Particle model Practical: To purify and calculate the yield of the product AFL: Who killed Scrappy Doo? End of Unit Test

Subject: Science Year group: Eight O side Exam board: AQA KS3 SOW

Summer Term: April-July 24

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Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions.

Topics Covered	Keywords	Assessment opportunities
Earth 2 • Understanding our atmosphere • Understanding how carbon is recycled. • Exploring how humans affect the carbon cycle. • Understanding global warming • Exploring damage to the Earth's resources • Considering the importance of recycling • How to extract metals	Global warming Fossil fuels Carbon sink Greenhouse effect Natural resources Mineral Ore Extraction Recycling Electrolysis	AFL TASK: Will humans be to blame for the end of life on Earth? AFL TASK: History of metals Practical: Extracting Metals End of Unit Test
Genes 2 • Explaining natural selection • Understanding the importance of biodiversity • Explaining extinction • Understanding the nature of genetic material • Exploring the role of chromosomes • Understanding variation • Modelling inheritance	Population Natural selection Extinct Biodiversity Competition Evolution Inherited characteristics DNA Chromosomes Gene	AFL : Inheritance six mark exam question Practical: Explore class variation of height and arm span AFL: Selective breeding debate End of Unit Test
Reactions 2 • Understanding exothermic reactions • Comparing endothermic and exothermic changes • Investigating endothermic reactions • Explaining the use of catalysts What catalysts do • Types of reactions • Exploring combustion • Exploring the use of fuels • Fuels and energy resources • Explaining changes	Catalysts Exothermic reaction Endothermic reaction Chemical bond Fuel Chemical reaction Physical change Reactants Products Conserved	AFL Task: Catalysts in action Practical: Investigating catalysts Afl Task: Using metals as fuels End of Unit Test

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Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions.

Topics Covered	Keywords	Assessment opportunities
Earth 2 • Understanding our atmosphere • Understanding how carbon is recycled. • Exploring how humans affect the carbon cycle. • Understanding global warming • Exploring damage to the Earth's resources • Considering the importance of recycling • How to extract metals	Global warming, Fossil fuels Carbon sink Greenhouse effect Natural resources Mineral Ore Extraction Recycling Electrolysis	AFL TASK: Will humans be to blame for the end of life on Earth? AFL TASK: History of metals Practical: Extracting Metals End of Unit Test
Forces 2 • Analysing equilibrium • What a drag- terminal velocity in air and fluids and friction • Understanding stretch and compression • Investigating Hooke's Law • Exploring pressure on a solid surface • Exploring pressure in a fluid • Calculating pressure	Equilibrium, Deformation, Linear relationship, Newton, Resultant force, Friction, Tension, Compression, Contact force, Fluid. Pressure, Upthrust Atmospheric pressure	• AFL: Biography on Hooke and Six-mark Question • Practical: Hooke's Law • AFL: Pressure and Balloons • End of Unit Test
Matter 2 • The principles underpinning the Mendeleev periodic table. • The periodic table: periods and groups; metals and non-metals • The varying physical and chemical properties of different elements • How patterns in reactions can be predicted with reference to the • periodic table • The properties of metals and non-metals • The varying physical and chemical properties of different elements • How patterns in reactions can be predicted with reference to the periodic table • Differences between atoms, elements and compounds • Chemical symbols and formulas for elements and compounds • Differences between atoms, elements and compounds • The chemical properties of metal and non-metal oxides • Properties of ceramics, polymers and composites (qualitative)	Periodic table Physical properties Chemical properties Groups Periods Elements Atom Molecules Compound Chemical formula Polymer	AFL Task: My favourite Chemical AFL Task: Special Materials Practical: Pykrete Materials End of Unit Test

Subject: Science Year group: Nine Sets three and Four Exam board: AQA Trilogy Science GCSE

Summer Term: April-July 24

For all topics Useful Resources: GCSE Pod, Seneca learning, BBC Bitesize, CGP Revision guides workbooks and revision guides,

Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions, check and challenge on GCSE Pod

Topics Covered	Keywords	Assessment opportunities
Energy Intro to Energy Stores Work Done Gravitational Potential Energy Kinetic Energy Elastic Potential Energy Conservation of Energy Investigating Friction Household Appliances Thermal Insulation House Insulation Efficiency Specific Heat Capacity Specific Heat Capacity RP Power and Efficiency Fossil Fuel and Nuclear Fuel Renewable Energy Other Renewable Energy Sources Energy Debate National Grid	• Closed System • Conservation of Energy • Efficiency • Elastic Potential Energy • Fossil Fuels • Gravitational Potential Energy • Joule • Kinetic Energy • Power • Renewable Energy Resource • Specific Heat Capacity • Spring Constant • System • Thermal Conductivity • Waste Energy • Watt • Work Done	Required PRAC 1: Specific heat capacity of materials. Past exam Questions End of Unit Test
Cell Biology Microscopes Eukaryotic cells Prokaryotic cells Specialised cells Cell differentiation plants Stem cells Chromosomes Cell cycle Diffusion Surface area to vol. Ratio Osmosis Active Transport	• Active transport • Adult stem cell • Agar jelly • Cell differentiation • Cell membrane • Cell wall • Chloroplast • Chromosomes • Concentration gradient • Diffusion • Embryonic stem cell • Eukaryotic cell • Magnification • Meristematic cells • Mitochondria • Mitosis • Nucleus • Organelle • Osmosis • Plasmid • Prokaryotic cell • Resolution • Specialised cells • Stem cell • Surface area • Surface area to volume ratio (SA: V • The cell cycles. • Therapeutic cloning • Vacuole	Past exam Questions End of Unit Test Required PRAC 1: Observe onion and cheek cells. Required Practical 2: investigate the effect of salt or sugar solutions on plant tissue.

Subject: Science Year group: Nine Sets One and Two Exam board: AQA Triple Science GCSE

Summer Term: April-July 24

For all topics Useful Resources: GCSE Pod, Seneca learning, BBC Bitesize, CGP Revision guides workbooks and revision guides,

Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions, check and challenge on GCSE Pod

Topics Covered	Keywords	Assessment opportunities
Energy Intro to Energy Stores Work Done Gravitational Potential Energy Kinetic Energy Elastic Potential Energy Conservation of Energy Investigating Friction Household Appliances Thermal Insulation House Insulation Efficiency Specific Heat Capacity Specific Heat Capacity RP Power and Efficiency Fossil Fuel and Nuclear Fuel Renewable Energy Other Renewable Energy Sources Energy Debate National Grid	• Closed System • Conservation of Energy • Efficiency • Elastic Potential Energy • Fossil Fuels • Gravitational Potential Energy • Joule • Kinetic Energy • Power • Renewable Energy Resource • Specific Heat Capacity • Spring Constant • System • Thermal Conductivity • Waste Energy • Watt • Work Done	Required PRAC 1: Specific heat capacity of materials. Past exam Questions End of Unit Test
Cell Biology Microscopes Eukaryotic cells Prokaryotic cells Specialised cells Cell differentiation plants Stem cells Chromosomes Cell cycle Diffusion Surface area to vol. Ratio Osmosis Active Transport	• Active transport • Adult stem cell • Cell differentiation • Cell membrane • Cell wall • Chloroplast • Chromosomes • Concentration gradient • Diffusion • Embryonic stem cell • Eukaryotic cell • Magnification • Meristematic cells • Mitochondria • Mitosis • Nucleus • Organelle • Osmosis • Plasmid • Prokaryotic cell • Resolution • Specialised cells • Stem cell • Surface area • Surface area to volume ratio (SA: V • The cell cycles. • Therapeutic cloning • Vacuole	Past exam Questions End of Unit Test Required PRAC 1: Observe onion and cheek cells. Required Practical 2: investigate the effect of salt or sugar solutions on plant tissue.
Particle Model of Matter The Particle Model	• Change in Thermal Energy • Chemical Changes	Required Practical: Density of regular and irregular objects

Density Measuring Density Measuring Density RP Changes of State Internal Energy Latent Heat of Fusion Latent Heat of Vaporisation Particles in Gases Gas Pressure and Volume (Triple only)	• Condensation • Density • Evaporation • Freezing • Gas Temperature • Internal Energy • Latent Heat • Melting • Pascals • Physical Changes • Pressure • Specific Heat Capacity • Specific Latent Heat of Fusion • Specific Latent Heat of Vaporisation • Specific Latent Heat • Sublimation	Exam Questions End of Unit Test
Atomic structure and the periodic table Elements Compounds Mixtures History of the Atom Inside the Atom Electronic structure Looking for Patterns The Modern Periodic Table Physical Properties of Metals and Non-metals Reactions of Metals and Non-metals Noble Gases Alkali Metals The Halogens Transition Metals (Triple only) •	• Alkali metals • Atom • Atomic nucleus • Atomic number • Chromatography • Compound • Crystallisation • Displacement • Electron • Electron shell • Element • Filtration • Fractional distillation • Group (periodic table) • Halogens • Ion • Isotope • Mass number • Metals • Mixture • Neutron • Noble gases • Non-metals • Nuclear model • Periodic table • Plum pudding model • Proton • Relative atomic mass • Simple distillation • Transition metals	Practical: Chromatography Students learn how to carry out a chromatography experiment and how to interpret chromatograms to solve problems. Exam Questions End of Unit Test

Year Ten Topics Studied by Paper over the Year

Biology Paper One

Cell Biology
Microscopes
Eukaryotic cells
Prokaryotic cells
Specialised cells
Cell differentiation plants
Stem cells
Chromosomes
Cell cycle
Diffusion
Surface area to vol. Ratio
Osmosis
Active Transport

Organisation
Body organisation
Digestion
Enzymes
Blood
Heart and Circulatory System
CHD
Respiratory System
Health
Lifestyle
Cancer

Infection and Response
Communicable Disease
Diseases
Human Defence
Vaccination
Antibiotics
Bacteria/Aseptic Techniques (Triple only)
Drug testing
Producing monoclonal antibodies (Triple only)
Uses of monoclonal antibodies (Triple only)

Biogenetics
Structure of a plant
Factors affecting photosynthesis
Transport in plants
Photosynthesis
Uses of glucose
Greenhouses (HT only)
Plant disease and defence (Triple only)
Aerobic respiration
Anaerobic respiration
Exercise
Metabolic rate

Chemistry Paper One

Atomic structure and the periodic table
Elements
Compounds
Mixtures
History of the Atom
Inside the Atom
Electronic structure
Looking for Patterns
The Modern Periodic Table
Physical Properties of Metals and Non-metals
Reactions of Metals and Non-metals
Noble Gases
Alkali Metals
The Halogens
Transition Metals (Triple only)

Bonding structure and properties of matter
States of Matter
Ionic Bonding
Ionic Compounds
Properties of Ionic Compounds
Covalent Bonding in Simple Molecules
Properties of Simple Molecules
Polymers
Giant Covalent Structures
Fullerenes and Graphene
Metallic Bonding
Properties of Metals and Alloys
Nanoparticles (Triple only)
Applications of nanoparticles (Triple only)

Quantitative Chemistry
Chemical Equations
Relative formula mass
Reactions involving gases
Moles (HT only)
Reacting Masses (HT only)
From masses to Equations (HT only)
Limiting reactants (HT only)
Percentage Yield (Triple only)
Atom Economy (Triple only)
Concentration of Solutions
Molar Concentrations (Triple only)
Titrations (Triple only)
Volumes of gases (Triple only)

Chemical Changes
The Reactivity of Metals
Displacement Reactions
Extracting Metals
Salts from Metals
Salts from Insoluble Bases
Neutralisation

Physics Paper One

Energy
Intro to Energy Stores
Work Done
Gravitational Potential Energy
Kinetic Energy
Elastic Potential Energy
Conservation of Energy
Investigating Friction
Household Appliances
Thermal Insulation
House Insulation
Efficiency
Specific Heat Capacity
Specific Heat Capacity RP
Power and Efficiency
Fossil Fuel and Nuclear Fuel
Renewable Energy
Other Renewable Energy Sources
Energy Debate
National Grid

Electricity
Static Electricity
Electrical Charge and Current
Potential Difference and Resistance
Length of Wire RP
Current v pd Graphs
Component Characteristics
Investigating I-V Graphs RP
Series Circuits
Parallel Circuits
Circuit Calculations
Resistors in Series and Parallel RP
Direct v Alternating Potential Difference
Mains Electricity
Electrical Power
Electrical Energy Transfer
Electrical Efficiency

Particle Model of Matter
The Particle Model
Density
Measuring Density
Measuring Density RP
Changes of State
Internal Energy
Latent Heat of Fusion
Latent Heat of Vaporisation
Particles in Gases
Gas Pressure and Volume (Triple only)

Atomic Structure
Atomic Structure
Radioactive Decay
Types of Radiation
Half Lives

	Required Practical – Titration: Triple Only Acids and Carbonates The pH Scale Strong and Weak Acids (HT only) Introduction to Electrolysis Using Electrolysis to Extract Metals Electrolysis of Solutions Investigating the Electrolysis of Solutions Reactions at Electrodes (HT only) **<u>Energy Changes</u>** Exothermic and Endothermic Reactions Investigating an Exothermic Reaction Reaction Profiles Bond Energy Calculations (HT only) Energy from Fuels (HT only) Chemical Cells and Batteries (Triple only) Fuel Cells (Triple only)	Irradiation and Contamination Hazards of Radioactive Emissions (Triple only) Nuclear Radiation in Medicine (Triple only) Nuclear Fission (Triple only) Nuclear Fusion (Triple only)

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Revision Ideas: Mind maps, cue cards, past exam questions, recall revision questions, check and challenge on GCSE Pod

Class	Topics Left to cover	Assessment Opportunities
10YA	Atomic Structure and the /Periodic Table Energy Changes	Exam Questions through the 9topics End of Topic Tests Required Practical's
10Y B	Chemical Changes Energy Changes Bonding structure and /Properties of Matter	
10YC	Energy Changes Chemical Changes Quantitative Chemistry	
10YD	Particle Model of Matter Atomic Structure	
10XA	Energy Changes Bonding structure and /Properties of Matter	
10XB	Particle Model of Matter Atomic Structure	
10XC	Electricity Chemical Changes Particle Model of Matter Atomic Structure	
10XD	Chemical Changes Energy Changes Bonding structure and /Properties of Matter	

Year Eleven Topics Studied by Paper over the Year

Biology Paper Two

Homeostasis and response
Homeostasis
Nervous system
Brain (Triple only)
Eye (Triple only)
Body temperature (Triple only)
Endocrine system
Control of blood sugar
Control of water (Triple only)
Menstrual Cycle
Contraception
Infertility (HT and Triple only)
Negative feedback (HT &Triple only)
Plant hormones (Triple only)
Uses of plant hormones (Triple only)

Inheritance
Reproduction
Meiosis
Advs and disads (Triple only)
Human genome
DNA structure (Triple only)
Sex determination
Genetic Disease
History of genetics (Triple only)
Genetic engineering
Cloning (Triple only)
Variation
Selective Breeding
Evolution
Speciation (Triple only)
Origin of Species (Triple only)
Fossils
Antibiotic resistance
Extinction

Ecology
Classification
Competition
Abiotic and biotic factors
Adaptations
Food chains & distribution
Carbon and water cycle
Decay (Triple only)
Environmental change (Triple only)
Biodiversity
Waste management
Deforestation
Global warming
Maintaining biodiversity
Tropic levels (Triple only)
Food security (Triple only)
Food production (Triple only)
Biotechnology (Triple only)

Chemistry Paper Two

The rate and extent of chemical change
Measuring Mean Rate of Reaction
Investigating Rate of Reaction (2)
Collision Theory
Rate and Surface Area
Rate and Concentration (2)
Concentration and Pressure
Rate and Temperature
Catalysts
Reversible Reactions
Dynamic Equilibrium
Altering Conditions (HT Only)
Concentration & Dynamic Equilibrium (HT Only)

Organic Chemistry
Crude oil, hydrocarbons, and alkanes
Fractional Distillation
A World Without Oil
Properties of Hydrocarbons
Chemistry of Combustion (HT only)
Cracking
Alkenes (Triple only)
Reactions of Alkenes (Triple only)
Alcohols (1) (Triple only)
Alcohols (2) (Triple only)
Carboxylic Acids and Esters (Triple only)
Addition Polymerisation (Triple only)
Condensation Polymerisation (Triple only)
Natural Polymers (Triple only)
Summary (Triple only)

Chemistry of the Atmosphere
The Atmosphere Today
Evolution of the Atmosphere
Carbon in Rocks
Greenhouse Gases
Global Warming
Climate Change (1)
Climate Change (2)
Atmospheric Pollutants

The Earth's Resources
Finite and Renewable Resources
Water Fit to Drink
Desalination
Waste Water
Extracting Metals (HT only)
Life cycle Assessment
Reduce Reuse Recycle
Rusting (1) (Triple only)
Rusting (2) (Triple only)
Alloys (Triple only)
Properties of Polymers (Triple only)
Ceramics and Composites (Triple only)
The Haber Process (Triple only)
Making Fertilisers in the Lab (Triple only)

Physics Paper Two

Forces
Mass and Weight
Centre of Mass
Scalars and Vectors
Contact and Non-Contact Forces
Resultant Forces
Free Body Diagrams (HT only)
Resolving Forces using Vector Diagrams (HT only)
Newton's Second Law
Inertia and Estimating
Investigate the Effect of Force on Acceleration
Investigate the Effect of Mass on Acceleration
Newton's Third Law
Moments (Triple only)
Speed and Velocity
Distance v Time Graphs
Circular Motion (HT only)
Velocity v Time Graphs
Acceleration
Terminal Velocity
Reaction Time
Braking Distance
Momentum (HT only)
Changes in Momentum (Triple only)
Changing Shape
Deformation
Hooke's Law
Elastic Potential Energy
Pressure in Fluids (Triple only)
Atmospheric Pressure (Triple only)

Waves
Intro to Waves
Properties of Waves
Measuring Wave Speed
Ripple Tank and Stretched Rope RP
Reflection of Waves (Triple only)
Hearing Sounds (Triple only)
Ultrasound (Triple only)
Seismic Waves (Triple only)
Electromagnetic Spectrum
Ray Diagrams
IR Absorption and Radiation
Radio Communications
UV, X-rays and Gamma Rays
Uses of EM Waves
Visible Light (Triple only)
Reflection and Refraction of Light RP (Triple only)
Convex Lenses (Triple only)
Concave Lenses (Triple only)
Black Body Radiation (Triple only)
Infrared Radiation (Triple only)

Magnetism and Electromagnetism
Magnets

	Making Fertilisers in Industry (Triple only) **<u>Chemical analysis</u>** Pure Substances and Formulations Chromatography Testing for Gases Tests for Positive Ions (Triple only) Tests for Negative Ions (Triple only) Identifying Ionic Compounds(Triple only) Instrumental Analysis (Triple only)	Electromagnets The Motor Effect (HT only) Electric Motors (HT only) The Generator Effect (Triple only) Generators and Dynamos (Triple only) Loudspeakers and Microphones (Triple only) Transformers (Triple only) **<u>Space Physics</u>** Our Solar System (Triple only) The Life Cycle of a Star (Triple only) Satellites (Triple only) Red-Shift (Triple only)

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Class	Topics Left to cover	Assessment Opportunities
11YA	Waves- Ray Diagrams IR Absorption and Radiation	Exam Questions through the topics End of Topic Tests Required Practical's
11Y B	The Earths Resources	
11YC	Magnetism and Electromagnetism	
11YD	The Earths Resources Organic Chemistry	
11XA	The Earths Resources Organic Chemistry Chemical Analysis	
11XB	Ecology	
11XC	The Earths Resources Chemical Analysis	
11XD	All finished revision with both teachers	