**Separate Science Revision Plan 23-24.**

Below is a guide for the next academic year, aiming to help you structure your science revision.

You DO NOT need to complete everything listed or revise for science every single day – it’s great if you do, but you have other subjects to also revise for! This is purely to guide you in chunking your revision into manageable chunks (something which many students find overwhelming) and ensure you cover all content by mocks/exams.

Each bullet point refers to a video/topic on myGCSEscience. The website is a fantastic resource, but you can use other efficient revision methods too. Please ask one of us if you need any help with a particular topic or guidance on effective revision.

Mrs Cassells & Miss Bainbridge

myGCSEscience login details: username = surname.firstname (e.g. bloggs.joe for Joe Bloggs) password = sa

Biology Chemistry Physics Half Term Mocks Exams Progress Evening



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|  |  | 6th September   * Eukaryotic and Prokaryotic Cell * Atoms, Elements, Compounds, Mixtures * Energy Changes in a System | 7th September   * Specialised Cells * Separating Mixtures * Power | 8th September   * Orders of Magnitude & Standard Form * Scientific Models of the Atom * Conservation and Dissipation of Energy | 9th September   * Microscopes and Magnification * Atomic Structure * National and Global Energy Resources | 10th September   * Culturing Microorganisms * Relative Atomic Mass * Circuit Symbols |
| 11th September   * Chromosomes and Mitosis * Electronic Structure * Introduction to Electricity | 12th September   * Stem Cells * The Periodic Table * Resistors | 13th September   * Diffusion * Group 0 – The Noble Gases * Series and Parallel Circuits | 14th September   * Osmosis * Group 1 – The Alkali Metals * Investigating Resistance in Circuits | 15th September   * Active Transport * Group 7 – Halogens * Domestic Uses and Safety | 16th September   * Introduction to Enzymes * Transition Elements * Power and Energy Transfers | 17th September   * Enzymes in Digestive System * Ionic Bonding * The National Grid |
| 18th September   * Cardiovascular Disease * Covalent Bonding * Static Electricity | 19th September   * Circulatory System * Metallic Bonding * Electric Fields | 20th September   * Health and Risk Factors * Solids, Liquids and Gases * Density | 21st September   * Transpiration in Plants * Properties of Ionic, Covalent and Metallic Structures * Solids, Liquids and Gases | 22nd September   * Organisation in Plants * Giant Covalent Structures * Specific Heat Capacity and Specific Latent Heat | 23rd September   * Preventing the spread of pathogens * Graphene and Fullerenes * Particle Model and Pressure | 24th September   * Bacterial, fungal, viral and protist diseases * Nanoparticles * Atoms and Isotopes |
| 25th September   * Immunity and Vaccination * Conservation of Mass * The Development of the Model of the Atom | 26th September   * Fighting Diseases with Drugs * Relative Formula Mass * Radioactive Decay | 27th September   * Monoclonal Antibodies * The Mole * Half-Life | 28th September   * Plant Diseases and Defence Responses * Mass Changes * Radioactive Contamination | 29th September   * Photosynthesis * Reacting Masses * Background Radiation | 30th September   * Investigating the rate of photosynthesis * Concentration in g/dm3 * Hazards and Uses of Radiation | 1st October   * The Rate of Photosynthesis – Limiting Factors * Yield and Atom Economy * Nuclear Fission and Fusion |
| 2nd October   * Respiration and Metabolism * Concentration in mol/dm3 * Energy Changes in a System | 3rd October   * The Effect of Exercise on the Body * Gas Volumes * Power | 4th October   * Eukaryotic and Prokaryotic Cell * The Reactivity of Metals * Conservation and Dissipation of Energy | 5th October   * Specialised Cells * Displacement Reactions * National and Global Energy Resources | 6th October   * Orders of Magnitude & Standard Form * Extracting Metals * Circuit Symbols | 7th October   * Microscopes and Magnification * Reactions of Acids * Introduction to Electricity | 8th October   * Culturing Microorganisms * Making Salts * Resistors |
| 9th October   * Chromosomes and Mitosis * The pH scale and Neutralisation * Series and Parallel Circuits | 10th October   * Stem Cells * Titrations * Investigating Resistance in Circuits | 11th October   * Diffusion * Strong and Weak Acids * Domestic Uses and Safety | 12th October   * Osmosis * Electrolysis of Molten Salts * Power and Energy Transfers | 13th October   * Active Transport * Using Electrolysis to Extract Metals * The National Grid | 14th October   * Introduction to Enzymes * Electrolysis of Aqueous Salts * Static Electricity | 15th October   * Enzymes in Digestive System * Exothermic and Endothermic Reactions * Electric Fields |
| 16th October   * Cardiovascular Disease * Reaction Profile Diagrams * Density | 17th October   * Circulatory System * Calculating Energy Changes * Solids, Liquids and Gases | 18th October   * Health and Risk Factors * Chemical Cells * Specific Heat Capacity and Specific Latent Heat | 19th October   * Transpiration in Plants * Fuel Cells * Particle Model and Pressure | 20th October   * Organisation in Plants * Ionic Bonding * Atoms and Isotopes | 21st October   * Preventing the spread of pathogens * Covalent Bonding * The Development of the Model of the Atom | 22nd October   * Bacterial, fungal, viral and protist diseases * Metallic Bonding * Radioactive Decay |
| 23rd October   * Immunity and Vaccination * Properties of Ionic, Covalent and Metallic Structures * Half-Life | 24th October   * Fighting Diseases with Drugs * Giant Covalent Structures * Radioactive Contamination | 25th October   * Monoclonal Antibodies * Graphene and Fullerenes * Background Radiation | 26th October   * Plant Diseases and Defence Responses * The Mole * Hazards and Uses of Radiation | 27th October   * Photosynthesis * Reacting Masses * Nuclear Fission and Fusion | 28th October   * Investigating the rate of photosynthesis * Gas Volumes | 29th October   * The Rate of Photosynthesis – Limiting Factors * Titrations * P1 Revision |
| 30th October   * Respiration and Metabolism * Electrolysis of Molten Salts * P2 Revision | 31st October   * The Effect of Exercise on the Body * Electrolysis of Aqueous Salts * P3 Revision | 1st November   * B1 Revision * C1 Revision * P4 Revision | 2nd November   * B2 Revision * C2 Revision * P1 Revision | 3rd November   * B3 Revision * C3 Revision * P2 Revision | 4th November   * B4 Revision * C4 Revision * P3 Revision | 5th November   * B5 Revision * C5 Revision * P4 Revision |
| 6th November  Mocks | 7th November  Mocks | 8th November  Mocks | 9th November  Mocks | 10th November  Mocks | 11th November  Mocks | 12th November  Mocks |
| 13th November   * The Nervous System * Measuring Rates of Reaction * Scalars and Vectors | 14th November   * The Brain * Interpreting Rate Graphs * Contact and Non-Contact Forces | 15th November   * The Eye * Factors Affecting Rates of Reaction * Gravity | 16th November   * Controlling Body Temperature * Collision Theory and Activation Energy * Resultant Forces | 17th November   * Adrenaline and Thyroxine * Reversible Reactions and Equilibrium * Work Done and Energy Transfer | 18th November   * Controlling Blood Glucose * Factors Affecting Equilibrium * Forces and Elasticity | 19th November   * Maintaining Water and Nitrogen Balance * Crude Oil and Alkanes * Moments, Levers and Gears |
| 20th November   * Hormones in Human Reproduction * Combustion of Hydrocarbons * Pressure and Pressure Differences in Fluids | 21st November   * Plant Hormones: Coordination and Use * Cracking and Alkenes * Distance and Displacement, Speed and Velocity | 22nd November   * Genetic Inheritance * Alkenes * Distance-Time Graphs | 23rd November   * Asexual vs Sexual Reproduction and Meiosis * Alcohols * Acceleration | 24th November   * Reproducing Both Ways * Carboxylic Acids * Velocity-Time Graphs | 25th November   * DNA and the Genome * Addition Polymerisation * Falling Objects | 26th November   * DNA Structure and Protein Synthesis * Condensation Polymerisation * Newton’s Laws of Motion |
| 27th November   * Inherited Disorders – Polydactyly * Biological Polymers * Forces and Braking | 28th November   * Inherited Disorders – Cystic Fibrosis * Purity and Formulations * Momentum 1 | 29th November   * Screening for Genetic Disorders * Gas Tests * Momentum 2 | 30th November   * Natural Selection * Chromatography * Transverse and Longitudinal Waves | 1st December   * Selective Breeding * Tests for Cations * Properties of Waves | 2nd December   * Genetic Engineering * Tests for Anions * Reflection of Waves | 3rd December   * The History of Genetics * Instrumental Methods of Analysis * Sound Waves |
| 4th December   * Cloning * The Earth’s Atmosphere * Waves for Detection and Exploration | 5th December   * Theories of Evolution and Speciation * The Greenhouse Effect and Global Warming * Electromagnetic Waves 1 | 6th December   * Evidence for Evolution and Extinction * Atmospheric Pollutants * Electromagnetic Waves 2 | 7th December   * Classification and Evolutionary Trees * Transition Elements * Visible Light | 8th December   * Communities and Interdependence * Nanoparticles * Lenses | 9th December   * Adaptations * Reacting Masses * Black Body Radiation | 10th December   * Measuring the Distribution of Organisms * Yield and Atom Economy * Energy Changes in a System |
| 11th December   * Cycling in Ecosystems * Concentration in mol/dm3 * Power | 12th December   * Rates of Decomposition * Gas Volumes * Conservation and Dissipation of Energy | 13th December   * Impact of Environmental Change * Titrations * National and Global Energy Resources | 14th December   * Human Impact on the Environment * Chemical Cells * Circuit Symbols | 15th December   * Trophic Levels in an Ecosystem * Fuel Cells * Introduction to Electricity | 16th December   * Sustainable Food Production * Factors Affecting Equilibrium * Resistors | 17th December   * Culturing Microorganisms * Alkenes * Series and Parallel Circuits |
| 18th December   * Monoclonal Antibodies * Alcohols * Investigating Resistance in Circuits | 19th December   * Plant Diseases and Defence Responses * Carboxylic Acids * Domestic Uses and Safety | 20th December   * The Brain * Addition Polymerisation * Power and Energy Transfers | 21st December   * The Eye * Condensation Polymerisation * The National Grid | 22nd December   * Controlling Body Temperature * Biological Polymers * Static Electricity | 23rd December   * Maintaining Water and Nitrogen Balance * Tests for Cations * Electric Fields | 24th December |
| 25th December | 26th December | 27th December   * Plant Hormones: Coordination and Use * Tests for Anions * Density | 28th December   * Reproducing Both Ways * Instrumental Methods of Analysis * Solids, Liquids and Gases | 29th December   * DNA Structure and Protein Synthesis * Group 1 – Alkali Metals * Specific Heat Capacity and Specific Latent Heat | 30th December | 31st December |
| 1st January | 2nd January | 3rd January   * The History of Genetics * Group 7 – Halogens * Particle Model and Pressure | 4th January   * Cloning * Displacement Reactions * Atoms and Isotopes | 5th January   * Theories of Evolution and Speciation * Strong and Weak Acids * The Development of the Model of the Atom | 6th January   * Rates of Decomposition * Calculating Energy Changes * Radioactive Decay | 7th January   * Impact of Environmental Change * Factors Affecting Rates of Reaction * Half-Life |
| 8th January   * Trophic Levels in an Ecosystem * C1 Revision * Radioactive Contamination | 9th January   * Sustainable Food Production * C2 Revision * Background Radiation | 10th January   * The Effect of Exercise on the Body * C3 Revision * Hazards and Uses of Radiation | 11th January   * Immunity and Vaccination * C4 Revision * Nuclear Fission and Fusion | 12th January   * Chromosomes and Mitosis * C5 Revision * Resultant Forces | 13th January   * Investigating the Rate of Photosynthesis * C6 Revision * Acceleration | 14th January |
| 15th January   * B1 Revision * C1 Revision * Momentum | 16th January   * B2 Revision * C2 Revision * Properties of Waves | 17th January   * B3 Revision * C3 Revision * Reflection of Waves | 18th January   * B4 Revision * C4 Revision * Sound Waves | 19th January   * B5 Revision * C5 Revision * Waves for Detection and Exploration | 20th January   * B6 Revision * C6 Revision * Electromagnetic Waves | 21st January   * B7 Revision * C7 Revision * Lenses |
| 22nd January   * B1 Revision * C8 Revision * Magnetism | 23rd January   * B2 Revision * C9 Revision * The Motor Effect | 24th January   * B3 Revision * C1 Revision * Induced Potential | 25th January   * B4 Revision * C2 Revision * Transformers | 26th January   * B5 Revision * C4 Revision * Our Solar System | 27th January   * B6 Revision * C5 Revision * The Life Cycle of a Star | 28th January   * B7 Revision * Sustainable Development * Orbital Motion |
| 29th January   * B1 Revision * Potable Water * Red-Shift | 30th January   * B2 Revision * Alternative Methods of Extracting Metals * P1 Revision | 31st January   * B3 Revision * Life Cycle Assessment * P2 Revision | 1st February   * B4 Revision * Corrosion and Rusting * P3 Revision | 2nd February   * B5 Revision * Using Materials * P4 Revision | 3rd February   * B6 Revision * The Haber Process * P5 Revision | 4th February   * B7 Revision * NPK Fertilisers * P6 Revision |
| 5th February  Mocks | 6th February  Mocks | 7th February  Mocks | 8th February  Mocks | 9th February  Mocks | 10th February  Mocks | 11th February  Mocks |
| 12th February  Mocks | 13th February  Mocks | 14th February  Mocks | 15th February  Mocks | 16th February  Mocks | 17th February  Mocks | 18th February  Mocks |
| 19th February   * Mock Revision | 20th February   * Mock Revision | 21st February   * Mock Revision | 22nd February   * Mock Revision | 23rd February   * Mock Revision | 24th February   * Mock Revision | 25th February   * Mock Revision |
| 26th February  Mocks | 27th February  Mocks | 28th February  Mocks | 29th February  Mocks | 1st March  Mocks | 2nd March  Mocks | 3rd March  Mocks |
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| 6th May   * B3 Revision * B4 Revision | 7th May   * B1 Revision * B2 Revision | 8th May   * B3 Revision * B4 Revision | 9th May   * Biology Paper 1 Revision | 10th May  Biology 1 Exam | 11th May   * C1 Revision * C2 Revision | 12th May   * C3 Revision * C4 Revision |
| 13th May   * C5 Revision * C1 Revision | 14th May   * C2 Revision * C3 Revision | 15th May   * C4 Revision * C5 Revision | 16th May   * Chemistry Paper 1 Revision | 17th May  Chemistry 1 Exam | 18th May   * P1 Revision * P2 Revision | 19th May   * P3 Revision |
| 20th May   * P4 Revision | 21st May   * Physics Paper 1 Revision | 22nd May  Physics 1 Exam | 23rd May   * B5 Revision * C6 Revision * P5 Revision | 24th May   * B6 Revision * C7 Revision * P6 Revision | 25th May   * B7 Revision * C8 Revision * P7 Revision | 26th May   * B5 Revision * C9 Revision * P8 Revision |
| 27th May   * B6 Revision * C10 Revision * P5 Revision | 28th May   * B7 Revision * C6 Revision * P6 Revision | 29th May   * B5 Revision * C7 Revision * P7 Revision | 30th May   * B6 Revision * C8 Revision * P8 Revision | 31st May   * B7 Revision * C9 Revision * P5 Revision | 1st June   * B5 Revision * C10 Revision * P6 Revision | 2nd June   * B6 Revision * P7 Revision * P8 Revision |
| 3rd June   * B7 Revision | 4th June   * B5 Revision * B6 Revision | 5th June   * B7 Revision | 6th June   * Biology Paper 2 Revision | 7th June  Biology 2 Exam | 8th June   * C6 Revision * C7 Revision | 9th June   * C8 Revision * C9 Revision * C10 Revision |
| 10th June   * Chemistry Paper 2 Revision | 11th June  Chemistry 2 Exam | 12th June   * Physics Paper 2 Revision | 13th June   * Physics Paper 2 Revision | 14th June  Physics 2 Exam | 15th June | 16th June |