Biology Paper 1 Friday May 10th Combined

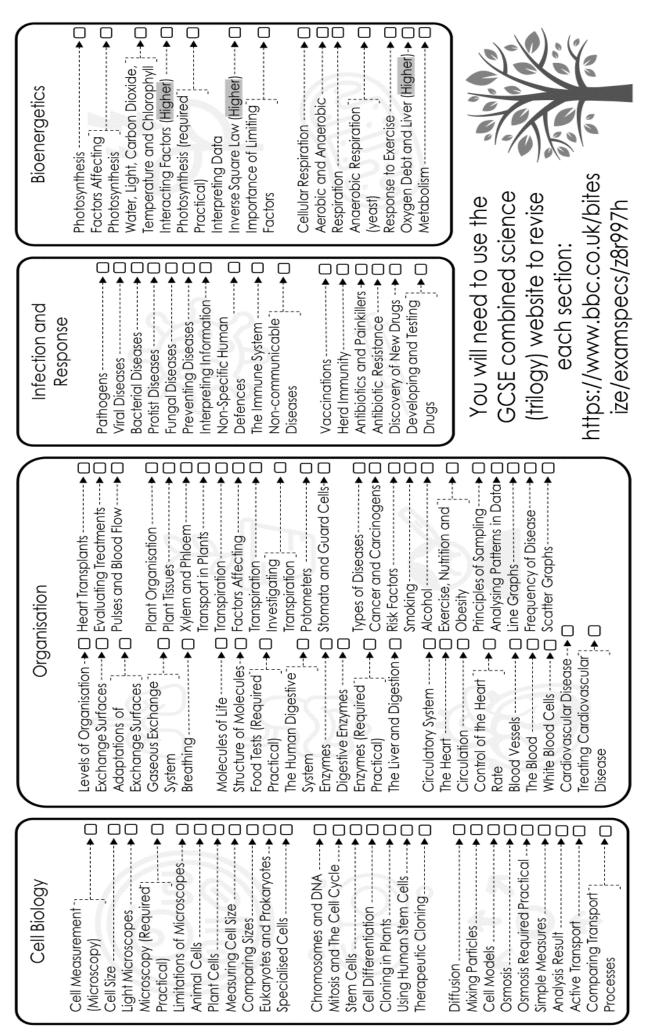
B1. Cell Biology

B2. Organisation

B3. Infection and Response

B4. Bioenergetics

AQA GCSE COMBINED SCIENCE PAPER 1 REVISION CHECK-LIS



AQA Biology Required Practical Checklist

To show how confident you are with each required practical, either colour the square red, amber or green or add a tick in the correct box.

| Practical Name | Completed | Rate Your Understanding of This Practical | | | Exam Questions Completed |
|--|-----------|--|-------|--|--------------------------------|
| | | Red | Amber | | |
| Microscopy: Using a microscope to observe, draw and label animal and plant cells. | | | | | |
| Microbiology (Biology Only): Investigating the effect of antiseptics on the growth of bacteria. | | | | | |
| Osmosis: Investigating the effect of concentration of salt or sugar solutions on the mass of plant tissue. | | | | | |
| Food Tests: Using qualitative reagents to test for carbohydrates, lipids and proteins. | | | | | |
| Enzymes: Investigating the effect of pH on the rate of reaction of amylase. | | | | | |
| Photosynthesis: Investigating the effect of light intensity on the rate of photosynthesis. | | | | | |
| Reaction Time: Investigating the effect of a factor on human reaction time. | | | | | |
| Germination (Biology Only): Investigating the effect of gravity or light on the growth of newly germinated seedlings. | | | | | |
| Field Investigations: Using sampling techniques to investigate the effect of a factor on distribution of a species. | | | | | |
| Decay (Biology Only): Investigating the effect of temperature on the rate of decay of milk by measuring changes in pH. | | | | | |

SCIENCE

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Chemistry Paper 1 Friday May 17th Combined

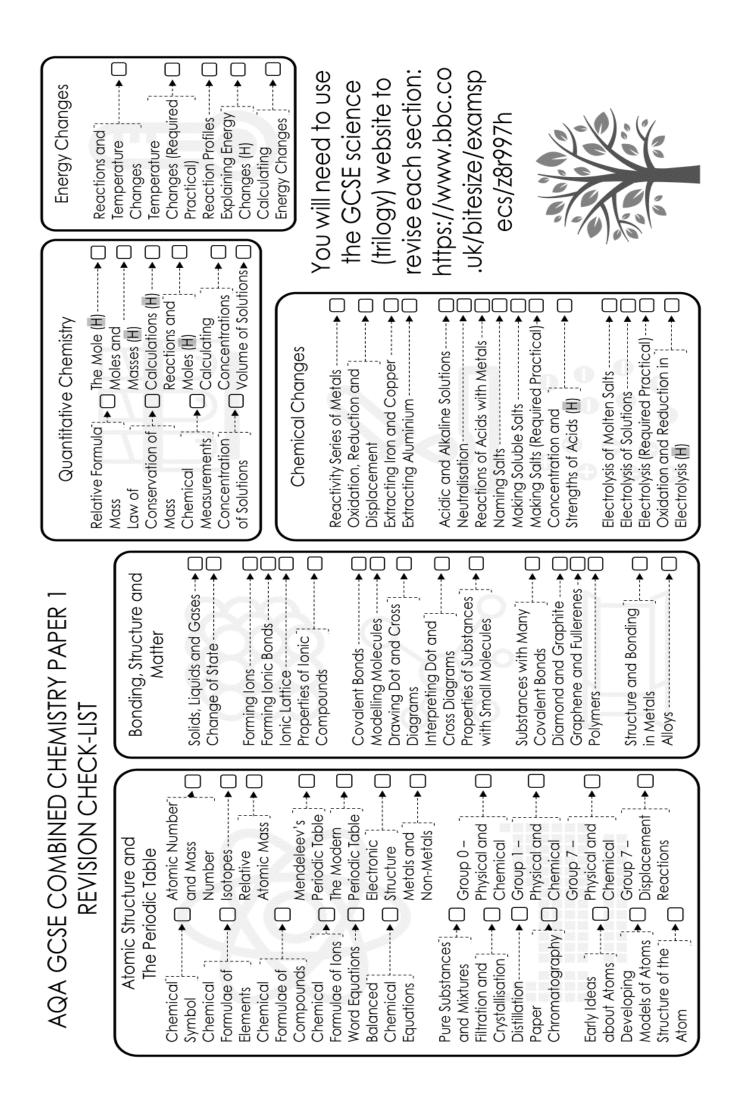
C1. Atomic structure & Periodic Table

C2. Bonding, Structure and Properties

C3. Quantitative Chemistry

C4. Chemical Changes

C5. Energy Changes



To show how confident you are with each required practical, either colour the square red, amber or green or add a tick in the correct box.

| Practical Name | Completed | of This Practical | | Rate Your Understanding of This Practical | | | Exam Questions Completed |
|--|-----------|-------------------|-------|---|--|--|--------------------------------|
| | | Red | Amber | Green | | | |
| Making Salts: Using an insoluble oxide or carbonate to prepare a pure, dry sample of a soluble salt. | | | | | | | |
| Neutralisation (Chemistry Only Foundation Tier): Using titration to find the volume of a strong acid required to neutralise a known volume of a strong alkali. | | | | | | | |
| Neutralisation (Chemistry Only Higher Tier): Finding the concentration of a solution from the reacting volume and known concentration of another solution. | | | | | | | |
| Electrolysis: Investigating the elements formed at each electrode when aqueous salt solutions are electrolysed. | | | | | | | |
| Temperature Changes: Investigating the variables that affect temperature changes in reacting solutions. | | | | | | | |
| Rates of Reaction: Investigating how the concentration of a solution affects the rate of reaction. | | | | | | | |
| Chromatography : Investigating how paper chromatography can be used to separate and identify mixtures of coloured substances. | | | | | | | |
| Identifying Ions (Chemistry Only): Using chemical tests to identify anions and cations in ionic compounds. | | | | | | | |
| Water Purification: Testing water samples to identify impurities and using distillation to produce potable water. | | | | | | | |

Physics Paper 1 Wednesday May 22nd Combined

P1. Energy

P2. Electricity

P3. Particle Model of Matter

P4. Atomic Structure (Radioactivity)

AQA GCSE COMBINED PHYSICS PAPER 1 REVISION CHECK-LIST

You will need to use the GCSE science (trilogy) website to revise each

section:

Rutherford and the Developing the Atom ► \Box Radioactive Decay --+□ Atoms and Isotopes--+(Nuclear Radiation ----+ on the Human Body Nuclear Equations ----+ ***** Atomic Structure Effect of Radiation the Atomic Model Developments to Structure of the] https://www.bbc.co.uk/bitesize/examspecs/z8r997h Half-Lives ------Contamination Irradiation ---Nucleus Further Atom lons --**□** Specific Latent Heat -► Pressure and Volume ► Multiple Changes ---- ► 🗆 Density (Required 7 Volume -----Particle Model of Work and Energy States of Matter Matter Particle Motion Internal Energy Density -----Pressure and 7 Specific Heat Temperature. **Temperature** Practical) Capacity (2) Energy and (Higher) (Required Practical) (Required Practical) Energy and Power ----▶□ ***** The National Grid ----+ Potential Difference 7 Electrical Charge Electrical Circuit Electricity Alternating and 7 Voltage Graphs Series Circuits ----Parallel Circuits and Resistance Direct Current and Current Appliances Resistance Household Electricity Electrical Symbols **└** Work, Power and Efficiency - →□ National and Global Energy →□ Demands and Resources ---ŧ ł Specific Heat Capacity --Specific Heat Capacity 7 Conservation of Energy Thermal Conductivity --Types of Energy Stores Calculation of Energy Electrical Appliances Energy and Heating (Required Practical) Energy Dissipation --Energy Energy and Power -Energy Transfers --Efficiency --Changes Energy

AQA Physics Required Practical Checklist

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To show how confident you are with each required practical, either colour the square red, amber or green or add a tick in the correct box.

| Practical Name | Completed | of This Practical Ques | | | Exam Questions Completed |
|---|-----------|------------------------|-------|-------|--------------------------------|
| | | Red | Amber | Green | |
| Specific Heat Capacity: Investigating | | | | | |
| the specific heat capacity of copper. | | | | | |
| Thermal Insulation (Physics Only): | | | | | |
| Investigating the effectiveness of different materials as thermal | | | | | |
| insulators and factors that affect the | | | | | |
| thermal insulation properties of a | | | | | |
| material. | | | | | |
| Resistance: Using circuit diagrams to | | | | | |
| investigate the factors affecting the | | | | | |
| resistance of electrical circuits. | | | | | |
| I-V Characteristics: Investigating the | | | | | |
| effect of current through a component | | | | | |
| when the potential difference across it | | | | | |
| changes. | | | | | |
| Density: Finding the density of regular and irregular shaped objects and | | | | | |
| liquids. | | | | | |
| Force and Extension: Investigating | | | | | |
| the relationship between force and | | | | | |
| extension for a spring. | | | | | |
| Acceleration: Investigating the effects | | | | | |
| of mass and force on acceleration of | | | | | |
| an object. | | | | | |
| Waves: Observing waves in a ripple | | | | | |
| tank and observing waves on a | | | | | |
| stretched spring or cord. | | | | | |
| Reflection and Refraction (Physics | | | | | |
| Only): Investigating the reflection and | | | | | |
| refraction of light by different surfaces and substances. | | | | | |
| | | | | | |
| Radiation and Absorption: Investigating the amount of infrared | | | | | |
| radiation emitted from different | | | | | |
| surfaces. | | | | | |

Biology Paper 2 Friday June 7th Combined

B5. Homeostasis and Response

B6. Inheritance, Variation & Evolution

B7. Ecology

□ ▲ Sampling (Required Practical) • 🗆 Quadrats and Transects ------Adaptations of Animals -----Mean, Median and Mode Levels of Organisation ---Competition in Animals Adaptation of Plants ----Maintaining Biodiversity Predators and Prev Competition in Plants Waste Management Peat Bog Destruction Ecology Greenhouse Effect --Population Growth Extremophiles------**Recycling Material** The Carbon Cycle The Water Cycle --Global Warming -Abiotic Factors Biotic Factors ---Deforestation --Communities --Biodiversity -Averages Classification of Living • • Genetic Inheritance---+□ Ice and Peat Fossils-----+□ \Box aga gcse combined science paper 2 revision check-list Asexual Reproduction Inheritance, Variation combined science nttps://www.bbc.c (trilogy) website to o.uk/bitesize/exam You will need to -->□ Evolution by Natural specs/z8r997h and Evolution use the GCSE revise each Genetic Crosses -----+□ Resistant Bacteria ---Family Trees ------ Classifying Systems . section: --+□ Development of Punnett Squares------+ Cextinction--------> Organisms The Human Genome--►□ Selection Fossils -----Sexual Reproduction, Causes of Variation ----▶□ • \Box \Box Process of Genetic -----Selective Breeding-----+ Genetic Engineering---+ Engineering (Higher)----Meiosis and Gametes Examples of Genetic Genetic Engineering Sex Determination---nherited Disorders----Benefits and Risks of Uses of Genetic⁻ Mutation and [Engineering Variation Crosses - ANO • □ ▲ • □ **↑ □** ▲ **□** ♠ □ ▲ □ **↑** □ ▲ **□ ↑ □** Homeostasis and Response Oestrogen and Progesterone Negative Feedback (Higher) Control of Blood Glucose ---Hormones in the Menstrual Non-hormonal Methods of Hormones and Nerves-----Reproductive Hormones -The Nervous System Evaluating IVF (Higher) Hormonal Methods of (Required Practical) Role of Glucagon Adrenaline (Higher) Homeostasis ------Contraception Contraception Reaction Time Thyroxine and IVF (Higher) -----Diabetes----Reflexes--(Higher) Cycle

Chemistry Paper 2 Tuesday June 11th Combined

C6. Rate of Chemical Change

- C7. Organic Chemistry
- **C8.** Chemical Analysis
- **C9.** Chemistry of the Atmosphere

C10. Using Resources

| <-LIST Using Resources | The Earth's Resources | Potable Water | Life-cycle Assessment | You will need to use the GCSE science (trilogy) website to revise each | https://www.bbc.co.uk/bitesi | ze/examspecs/z8r997h | |
|-----------------------------------|--|---|---|--|--|----------------------------|--|
| PAPER 2 REVISION CHECK-LIST | Analysing and Identifying Substances | Pure Substances Formulations Chromatography Chromatography (Required Practical) | Chemistry of the Atmosphere Earth's Early | Atmosphere Increases in Oxygen Decreases in Carbon | The Greenhouse Ettect Human Activities Global Climate Chanae | Carbon Footprint | Hydrocarbon Fuels Atmospheric Pollutants |
| AQA GCSE COMBINED CHEMISTRY PAPER | The Rate and Extent of Chemical Changes | Rate of Reaction | Production of Gas (Required Practical) Rate of Reaction (Required | Reversible Reactions | Organic Chemistry | Crude Oil and Hydrocarbons | Alkanes |

Physics Paper 2 Friday June 14th Combined

P5. Forces

P6. Waves

P7. Magnetism & Electromagnetism

P8. Space Physics

| You will need to use the GCSE science | (trilogy) website to | https://www.bbc.co. | cs/z8r997h | Magnetism and | | Poles of a 7 | Induced and 7 | Permanents | Magnetism | Magnetic Fields | Flactromoduate 7 | Motor Effect (H) | Fleming's Left | Electric | Motors (H) | Transformers (H)-→□ |
|--|-----------------------------|------------------------|--|---------------------|------------------------|--------------------------------|-------------------|--|---|--------------------------------|--------------------|----------------------|--|--------------------|----------------------|------------------------------|
| Waves | Types of Waves | Wave Period and Wave 7 | Speed of Sound in Air and Water | Required Practical) | (Required Practical) | | | Electromagnetic Waves | More about | | Ionising Radiation | Reflection of Waves+ | Refraction of Waves | Infrared Radiation | (Required Practical) | The Earth's Temperature (H)+ |
| AQA GCSE COMBINED PHYSICS | PAPER 2 REVISION CHECK-LISI | Forces | Scalar Quantities Motion in a Straight Line+ | م | Velocity, Acceleration | Contact Forces> □ and Ulstance | Terminal Velocity | Gravitational Helds> Newton's Hirst Law> | Calculating Work Done + Corces and Acceleration 7 | Free Body (Required Practical) | es (H)• | | Change of shape> Lrorces and braking> Law> | | | |