GCSE Advance Information Booklet

SCHOOL READY; WORK READY; LIFE READY

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Horizon Community College

Introduction

We have been so proud of the resilience and hard work that Year 11 students have demonstrated over the last two years in preparing for their GCSE examinations and I am sure that this will continue over the remaining couple of months in the lead up to the summer examination season.

This booklet is designed to collate all the advance information that has been released by exam boards for GCSE examinations taking place in Summer 2022. This advance information is to help students to focus their revision given the disruption to their education as a result of the COVID-19 pandemic. This advance information will also be used by their teachers to organise revision time in the lead-up to exams. Please be aware that advance information has not be released for all GCSE subjects. We have only included in this booklet subjects where advance information has been released by the examination boards.

Below is a letter from the Chief Regulator of Ofqual, who has written to all students across the country to explain the support the government is putting in place.

Letter to students from Dr Jo Saxton, Ofqual Chief Regulator

In my job as Chief Regulator of qualifications I get to meet many students, teachers and parents from different parts of the country. Speaking to students like you, who are getting ready for formal exams and assessments, it's clear to me that you want life to get back to normal and that you would like as much certainty about what is going to happen as possible.

For that reason the exam boards have, this week, published for you 'advance information' on their websites. This is subject by subject, specification by specification, specific outlines of the focus of questions across many of your summer exams. We've added a tool on our website which shows you what is available for each subject. These materials are just one of the ways we are working to make sure that, despite the disruption caused by the coronavirus (COVID-19) pandemic, your exams and formal assessments are less daunting.

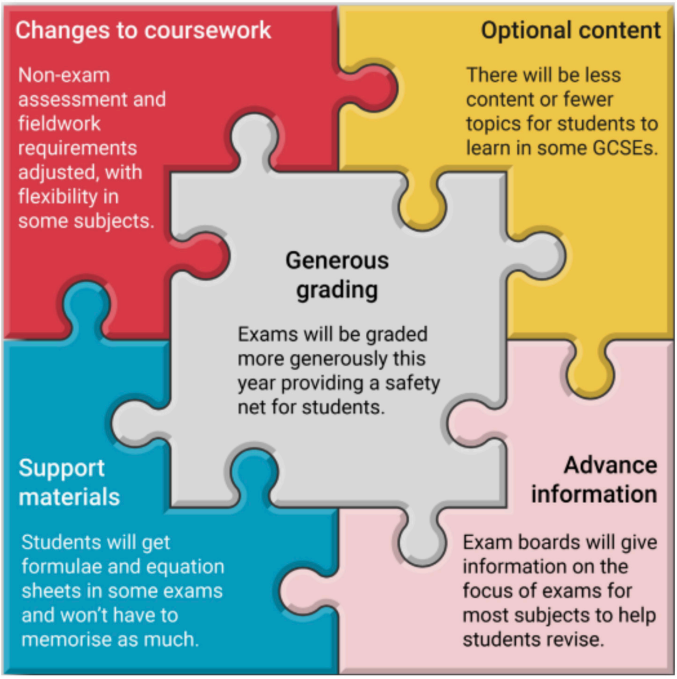
You will also get formulae sheets for GCSE maths exams and updated equation sheets for GCSE physics and combined science exams, so you won't have to memorise as much. As well as advance information and formulae sheets, you will be supported by generous grading, which will provide you with a safety-net to protect you from just missing out on a grade.

Best wishes,

Dr Jo Saxton Ofqual Chief Regulator

Summary of support for GCSE examinations in 2022

The diagram below summarises the support the government is putting in place, as discussed in the letter above. Please find a link to the website below for further details.



Subject-by-subject support for GCSE, AS and A level students in 2022 - GOV.UK (www.gov.uk)

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GCSE English Language

Information

- This advance information covers Paper 2 only.
- There is no advance information for Paper 1 due to the nature of the source and questions in this paper.
- For Paper 2 the list shows the major focus of the content of the exam.
- Assessment of reading and writing skills will occur throughout the papers.
- It is not permitted to take this notice into the examination.

Focus of the June 2022 exam

Paper 2: Writers' viewpoints and perspectives

Section A Reading	
Source A	**Source B**
21st century Autobiographical writing	19th century Essay

Section B Writing
Question 5
Article

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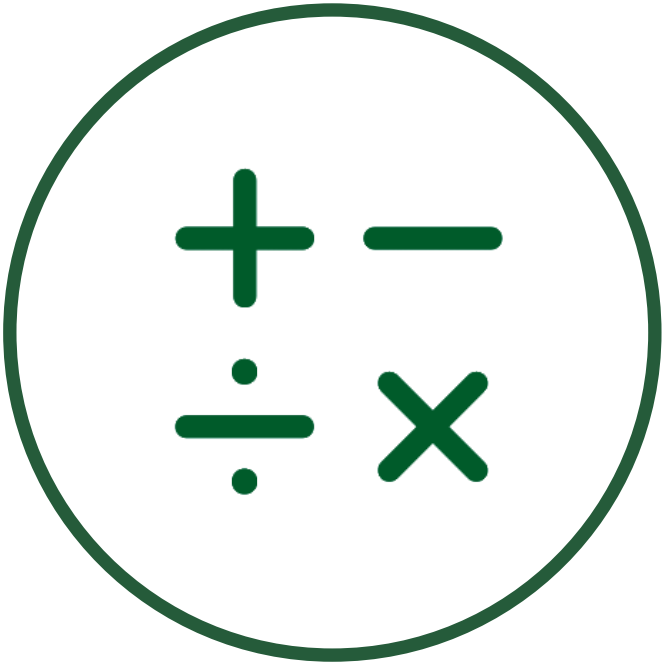
GCSE Mathematics



Realising potential

Information

- This advance information covers all examined components.
- There are no restrictions on who can use this.
- The format/structure of the papers remains unchanged.
- For each paper the list shows the major focus of questions.
- The information is presented in specification order and not in question order.
- You are not permitted to take this advance information into the exam.
- There are separate lists for Foundation and Higher tiers.

Advice

- The following areas of content are suggested as key areas of focus for revision and final preparation, in relation to the June 2022 examinations.
- Students and teachers should consider how to revise other parts of the specification, for example to review whether other topics may provide knowledge which helps your understanding in relation to the areas being tested in June 2022.
- Students will be credited for using any relevant or appropriate knowledge from any topic areas when answering questions.

Foundation Tier
8300/1F June 2022

Topic	Detail
Number (see Ratio)	
Arithmetic	Four operations
	Negative number
	Order of operations
	Estimation
Fractions	Arithmetic
	Fraction of a number
Indices	Laws of Indices
Standard Form	Conversion
	Calculation
Other	Inequality notation
	Systematic listing
Algebra	
Equations	Linear
Graphs	Recognise
	Plot
	Linear graph
	Intersection of lines
	Interpret
Reasoning	Formula
Sequences	Sequence rule to find a term
Ratio (see Number)	
Conversions	Lengths
Percentage	Percentage of an amount
	Amount as a percentage
Fraction	Fraction less than 1
Ratio	Simplest form
	Ratio to fraction
Applications	Cost problem
	Density
Geometry and Measures	
Shapes	Naming circle part
	Types of triangle
	Translation
Area and Volume	Perimeter
	Sector of a circle
Angles	In triangles
Constructions	Region
Statistics	
Two-way table	
Averages problem	
Outlier	
Probability	
Problem	
Venn diagram	

Foundation Tier
8300/2F June 2022

Topic	Detail
Number (see Ratio)	
Arithmetic	Order of operations
Fractions	Fraction of a number
	Improper fraction
	Fraction to decimal
Properties	Number line decimal
	Number problem
	Prime number
	Cube number
	Decimal place
Other	Inequality notation

Algebra	
Equations	Linear
Manipulation	Equivalent expressions
	Terms
	Multiply out
	Factorisation
Graphs	Coordinates
	Midpoint
	Point on line
	Intercept of a line
	Gradient of a line
	Equation of a line

Ratio (see Number)	
Conversions	Time
Percentage	Ratio and percentage
	Percentage increase
	Percentage decrease
Ratio	n : 1 form
Applications	Proportion problem
	Scale diagram
	Better value
	Ratio to percentage
	Equation to percentage
	Rate of output

Geometry and Measures	
Shapes	Draw shape
	Quadrilateral
	Parallelogram
	Part of circle
	Pythagoras
Measures	Time problem
Area and Volume	Compound shape

Statistics
Pie chart
Range
Mean
Probability
Relative frequency
Expected value
Tree diagram

Foundation Tier
8300/3F June 2022

Topic	Detail
Number (see Ratio)	
Properties	Place value
	Factor
	Multiple
	Highest Common Factor
	Error interval
Indices	Calculation
Other	Money problem
	Units of measure
Algebra	
Equations	Number machine
Manipulation	Simplification
	Substitution
	Formula
Graphs	Roots
	Turning point
Sequences	Arithmetic
	Geometric
	nth term
Ratio (see Number)	
Conversions	Lengths
	Time
Ratio	Share into a ratio
Applications	Ratio problem
	Interpretation
	Ratio to graph
	Average speed
Percentage	Percentage increase
Fraction	Fraction to percentage

Geometry and Measures	
Shape	Name
	Regular
	Line symmetry
	Rotational symmetry
	Circle
	Cylinder
	Sphere
	Trigonometry
Area and Volume	Compound shape
	Perimeter
Angles	Alternate angles
Other	Vector arithmetic

Statistics
Two-way table
Vertical line diagram
Mean from diagram
Bar chart
Probability
Frequency tree
Estimate of probability

Higher Tier
8300/1H June 2022

Topic	Detail
Number (see Ratio)	
Arithmetic	Decimal
Fractions	Arithmetic
	Fraction of a number
	Value as fraction of another
	Recurring decimals as fractions
Percentage	Percentage as operator
Indices	Laws of Indices
Standard Form	Conversion
	Calculation
Surds	Simplification
Algebra	
Equations	Of a straight line
	Linear
Manipulation	Identity
	Simplification of algebraic fraction
	Simplification
	Factorisation of quadratic
	Change subject
Graphs	Recognise
	Sketch function
	Speed time
	Inequality region
	Interpret
Sequences	Algebraic
Ratio (see Number)	
Ratio	Simplest form
	Proportion problem
Geometry and Measures	
Shape	Congruence
	Prism
	Faces
	Exact trigonometric values
Area and Volume	Sector a of circle
Vectors	Vector geometry
Constructions	Region

Statistics
Cumulative frequency
Probability
Venn diagram
Tree diagram
Expected value
Independent events

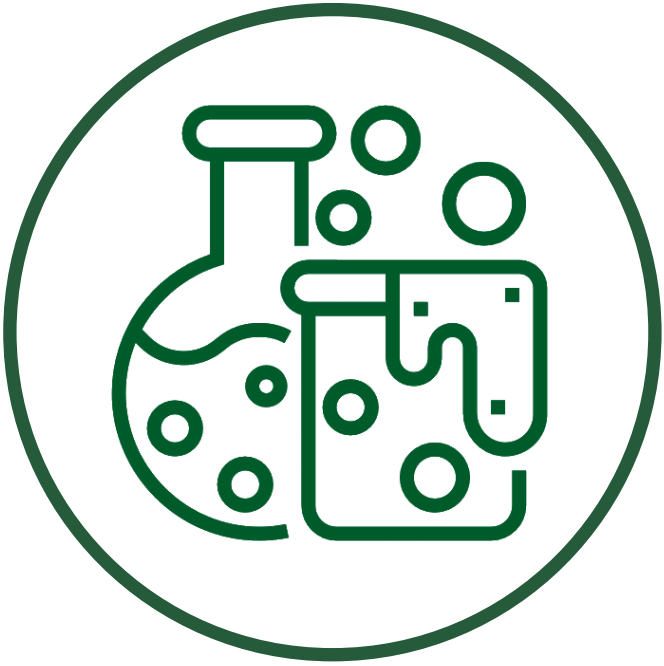
Higher Tier
8300/2H June 2022

Topic	Detail
Number (see Ratio)	
Properties	Prime number
	Cube number
	Reciprocal
	Decimal places
	Bounds
Fractions	Products
Indices	Negative
Algebra	
Equations	Of a circle
	Linear
	Quadratic
	Number line inequality
Manipulation	Factorisation of quadratic
	Multiply out
	Completing the square
Graphs	Coordinate problem
	Perpendicular lines
	Turning point
Functions	Inverse
Sequences	Triangular number
Ratio (see Number)	
Ratio	Share into a ratio
	On a line
Fraction	To percentage
Conversions	Time
Applications	Equation to percentage
	Rate of output
	Pressure
Percentage	Percentage increase
	Percentage decrease
Geometry and measures	
Area and Volume	Compound shape
	Cone
	Hemisphere
	Volume scale factor
Shape	Plan
	Pythagoras
Measures	Time
Other	Geometric proof
Statistics	
Estimation from sample	
Pie chart	
Mean	
Probability	
Relative frequency	
Expected value	
Notation	

Higher Tier
8300/3H June 2022

Topic	Detail
Number (see Ratio)	
Properties	Highest Common Factor
	Lowest Common Multiple
	Error interval
Decimals	Ordering
	Recurring
Other	Product rule for counting
Algebra	
Equations	Quadratic
	Simultaneous linear/quadratic
Manipulation	Simplification
	Triple bracket
	Factorisation
	Quadratic
Graphs	Roots
	Turning points
	Quadratic
	Exponential
Functions	Composite
Sequences	Arithmetic
	Geometric
	nth term
Ratio (see Number)	
Ratio	Share into a ratio
Applications	Average speed
	Population density
Percentages	Percentage increase
	Compound interest
Geometry and Measures	
Area and Volume	Compound shape
	Cylinder
Shape	Quadrilateral
	Circle theorems
	Trigonometry
	Sine/Cosine rule
Vectors	Vector arithmetic
Other	Bearing
Statistics	
Two-way table	
Histogram	
Box plot	
Median, quartiles	
Interquartile range	
Line of best fit	
Outlier	
Probability	
Independent events	

GCSE Combined Science: Trilogy



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- Another list shows which required practical activities will be assessed.
- Topics not assessed either directly or through 'linked' content have also been listed.
- The information is presented in specification order and not in question order.
- Assessment of practical skills, maths skills, and Working Scientifically skills will occur throughout all the papers.
- It is not permitted to take this advance information into the exam.

Advice

- It is advised that teaching and learning should still cover the entire subject content in the specification, so that students are as wellprepared as possible for progression to the next stage of their education.
- Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification.
- Students will still be expected to apply their knowledge to unfamiliar contexts.

Paper Biology 1F 8464/B/1F

For this paper, the following list shows the major focus of the content of the exam:
- 4.1.2 Cell division
- 4.2.2 Animal tissues, organs and organ systems
- 4.3.1 Communicable diseases
- 4.4.1 Photosynthesis

Required practical activities that will be assessed:
- Required practical activity 1: use of a light microscope.
- Required practical activity 3: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.
- Required practical activity 5: investigate the effect of light on the rate of photosynthesis of an aquatic plant such as pondweed.

Topics not assessed in this paper:
- 4.1.3.2 Osmosis
- 4.1.3.3 Active transport
- 4.2.2.4 Coronary heart disease: a non-communicable disease
- 4.4.1.3 Uses of glucose from photosynthesis
- 4.4.2 Respiration

Paper Biology 1H 8464/B/1H

For this paper, the following list shows the major focus of the content of the exam:
- 4.1.2 Cell division
- 4.2.2 Animal tissues, organs and organ systems
- 4.4.1 Photosynthesis

Required practical activities that will be assessed:
- Required practical activity 3: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.
- Required practical activity 4: investigate the effect of pH on the rate of reaction of amylase enzyme.
- Required practical activity 5: investigate the effect of light on the rate of photosynthesis of an aquatic plant such as pondweed.

Topics not assessed in this paper:
- 4.1.1.5 Microscopy
- 4.1.3 Transport in cells
- 4.2.3 Plant tissues, organs and systems
- 4.3.1.2 Viral diseases
- 4.3.1.4 Fungal diseases
- 4.3.1.5 Protist diseases
- 4.3.1.6 Human defence systems
- 4.4.1.3 Uses of glucose from photosynthesis
- 4.4.2.2 Response to exercise

Paper Biology 2F 8464/B/2F

For this paper, the following list shows the major focus of the content of the exam:
- 4.5.3 Hormonal control in humans
- 4.6.1 Reproduction
- 4.7.1 Adaptations, interdependence and competition
- 4.7.2 Organisation of an ecosystem

Required practical activity that will be assessed:
- Required practical activity 7: measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species.

Topics not assessed in this paper:
- 4.5.2 The human nervous system
- 4.5.3.3 Hormones in human reproduction
- 4.5.3.4 Contraception
- 4.6.1.1 Sexual and asexual reproduction
- 4.6.1.2 Meiosis
- 4.6.1.6 Sex determination
- 4.6.2.1 Variation
- 4.6.2.2 Evolution
- 4.6.2.3 Selective breeding
- 4.6.3.3 Extinction
- 4.6.3.4 Resistant bacteria
- 4.7.1.4 Adaptations
- 4.7.3.1 Biodiversity
- 4.7.3.3 Land use
- 4.7.3.4 Deforestation
- 4.7.3.5 Global warming
- 4.7.3.6 Maintaining biodiversity

Paper Biology 1H 8464/B/1H

For this paper, the following list shows the major focus of the content of the exam:
- 4.5.3 Hormonal control in humans
- 4.7.2 Organisation of an ecosystem
- 4.7.3 Biodiversity and the effect of human interaction on an ecosystem

Required practical activity that will be assessed:
- Required practical activity 7: measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species.

Topics not assessed in this paper:
- 4.5.2 The human nervous system
- 4.5.3.4 Contraception
- 4.6.1.1 Sexual and asexual reproduction
- 4.6.1.3 DNA and the genome
- 4.6.1.4 Genetic inheritance
- 4.6.1.5 Inherited disorders
- 4.6.1.6 Sex determination
- 4.6.2 Variation and evolution
- 4.6.3 The development of understanding of genetics and evolution
- 4.7.1.4 Adaptations
- 4.7.3.3 Land use
- 4.7.3.4 Deforestation

Paper Chemistry 1F 8464/C/1F

For this paper, the following list shows the major focus of the content of the exam:

- 5.1.2 The periodic table
- 5.2.2 How bonding and structure are related to the properties of substances
- 5.2.3 Structure and bonding of carbon
- 5.4.1 Reactivity of metals
- 5.4.2 Reactions of acids
- 5.4.3 Electrolysis

Required practical activities that will be assessed:

- Required practical activity 8: preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.
- Required practical activity 9: investigate what happens when aqueous solutions are electrolysed using inert electrodes. This should be an investigation involving developing a hypothesis.
- Required practical activity 10: investigate the variables that affect temperature changes in reacting solutions such as, eg, acid plus metals, acid plus carbonates, neutralisations, displacement of metals.

Topics not assessed in this paper:

- Not applicable

Paper Chemistry 1H 8464/C/1H

For this paper, the following list shows the major focus of the content of the exam:

- 5.2.2 How bonding and structure are related to the properties of substances
- 5.3.2 Use of amount of substance in relation to masses of pure substances
- 5.4.1 Reactivity of metals
- 5.4.2 Reactions of acids
- 5.4.3 Electrolysis
- 5.5.1 Exothermic and endothermic reactions

Required practical activities that will be assessed:

- Required practical activity 8: preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.
- Required practical activity 9: investigate what happens when aqueous solutions are electrolysed using inert electrodes. This should be an investigation involving developing a hypothesis.
- Required practical activity 10: investigate the variables that affect temperature changes in reacting solutions such as, eg, acid plus metals, acid plus carbonates, neutralisations, displacement of metals.

Topics not assessed in this paper:

- Not applicable

Paper Chemistry 2F 8464/C/2F

For this paper, the following list shows the major focus of the content of the exam:

- 5.6.1 Rate of reaction
- 5.6.2 Reversible reactions and dynamic equilibrium
- 5.7.1 Carbon compounds as fuels and feedstock
- 5.8.1 Purity, formulations and chromatography
- 5.9.1 The composition and evolution of the Earth's atmosphere
- 5.9.3 Common atmospheric pollutants and their sources
- 5.10.1 Using the Earth's resources and obtaining potable water

Required practical activities that will be assessed:

- Required practical activity 11: investigate how changes in concentration affect the rates of reactions by a method involving measuring the volume of a gas produced and a method involving a change in colour or turbidity. This should be an investigation involving developing a hypothesis.
- Required practical activity 12: investigate how paper chromatography can be used to separate and tell the difference between coloured substances. Students should calculate Rf values.

Topic not assessed in this paper:

- 5.9.2 Carbon dioxide and methane as greenhouse gases

Paper Chemistry 2H 8464/C/2H

For this paper, the following list shows the major focus of the content of the exam:

- 5.6.1 Rate of reaction
- 5.6.2 Reversible reactions and dynamic equilibrium
- 5.7.1 Carbon compounds as fuels and feedstock
- 5.8.1 Purity, formulations and chromatography
- 5.9.1 The composition and evolution of the Earth's atmosphere
- 5.10.1 Using the Earth's resources and obtaining potable water

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- Required practical activity 12: investigate how paper chromatography can be used to separate and tell the difference between coloured substances. Students should calculate Rf values.

Topic not assessed in this paper:

- 5.8.2 Identification of common gases

Paper Physics 1F 8464/P/1F

For this paper, the following list shows the major focus of the content of the exam:
- 6.1.1 Energy changes in a system, and the ways energy is stored before and after such changes
- 6.1.3 National and global energy resources
- 6.2.1 Current, potential difference and resistance
- 6.3.1 Changes of state and the particle model
- 6.4.2 Atoms and nuclear radiation

Required practical activities that will be assessed:
- Required practical activity 14: an investigation to determine the specific heat capacity of one or more materials. The investigation will involve linking the decrease of one energy store (or work done) to the increase in temperature and subsequent increase in thermal energy stored.
- Required practical activity 16: use circuit diagrams to construct appropriate circuits to investigate the I–V characteristics of a variety of circuit elements, including a filament lamp, a diode and a resistor at constant temperature.

Topics not assessed in this paper:
- 6.2.3 Domestic uses and safety
- 6.3.3 Particle model and pressure
- 6.4.1 Atoms and isotopes

Paper Physics 1H 8464/P/1H

For this paper, the following list shows the major focus of the content of the exam:
- 6.1.1 Energy changes in a system, and the ways energy is stored before and after such changes
- 6.2.4 Energy transfers
- 6.3.1 Changes of state and the particle model
- 6.3.3 Particle model and pressure
- 6.4.1 Atoms and isotopes
- 6.4.2 Atoms and nuclear radiation

Required practical activities that will be assessed:
- Required practical activity 14: an investigation to determine the specific heat capacity of one or more materials. The investigation will involve linking the decrease of one energy store (or work done) to the increase in temperature and subsequent increase in thermal energy stored.
- Required practical activity 16: use circuit diagrams to construct appropriate circuits to investigate the I–V characteristics of a variety of circuit elements, including a filament lamp, a diode and a resistor at constant temperature.

Topics not assessed in this paper:
- 6.2.2 Series and parallel circuits
- 6.2.3 Domestic uses and safety
- 6.3.2 Internal energy and energy transfers

Paper Physics 2F 8464/P/2F

For this paper, the following list shows the major focus of the content of the exam:
- 6.5.1 Forces and their interactions
- 6.5.4.1 Describing motion along a line
- 6.5.4.2 Forces, accelerations and Newton's Laws of motion
- 6.5.4.3 Forces and braking
- 6.6.2 Electromagnetic waves
- 6.7.1 Permanent and induced magnetism, magnetic forces and fields
- 6.7.2 The motor effect

Required practical activity that will be assessed:
- Required practical activity 21: investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.

Topic not assessed in this paper:
- 6.5.3 Forces and elasticity

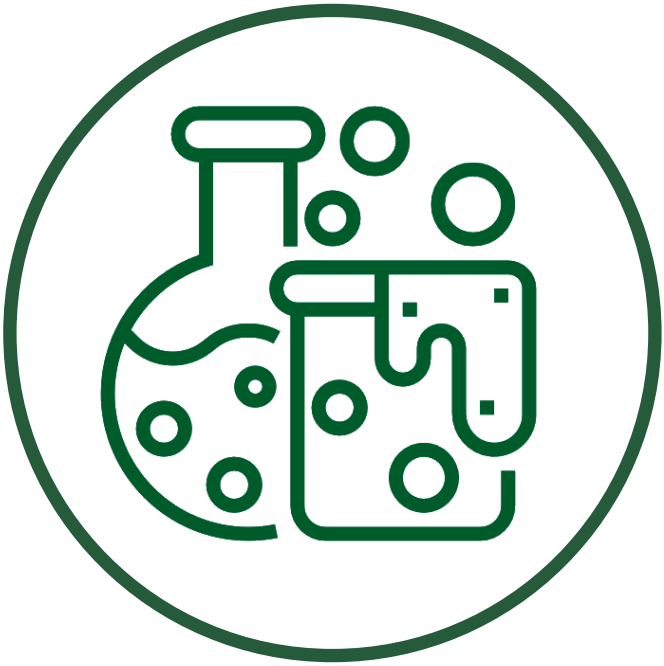
Paper Physics 2H 8464/P/2H

For this paper, the following list shows the major focus of the content of the exam:
- 6.5.1 Forces and their interactions
- 6.5.4.1 Describing motion along a line
- 6.5.4.2 Forces, accelerations and Newton's Laws of motion
- 6.5.5 Momentum
- 6.6.2 Electromagnetic waves
- 6.7.2 The motor effect

Required practical activity that will be assessed:
- Required practical activity 21: investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.

Topics not assessed in this paper:
- 6.5.3 Forces and elasticity
- 6.5.4.3 Forces and braking
- 6.7.1 Permanent and induced magnetism, magnetic forces and fields

GCSE Biology



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Advice

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- Students will still be expected to apply their knowledge to unfamiliar contexts.

Paper 1H 8461/1H

For this paper, the following list shows the major focus of the content of the exam:

- 4.1.1 Cell structure
- 4.1.3 Transport in cells
- 4.2.2 Animal tissues, organs and organ systems
- 4.2.3 Plant tissues, organs and systems
- 4.3.1 Communicable diseases
- 4.3.2 Monoclonal antibodies

Required practical activities that will be assessed:

- Required practical activity 1: use a light microscope to observe plant cells.
- Required practical activity 3: investigate the effect of a range of concentrations of salt solution on the mass of plant tissue.
- Required practical activity 4: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.

Topics not assessed in this paper:

- 4.2.2.3 Blood
- 4.2.2.7 Cancer
- 4.3.1.8 Antibiotics and pain killers
- 4.3.1.9 Discovery and development of drugs
- 4.4.2.2 Response to exercise

GCSE Biology (8461)

Paper 2H 8461/2H

For this paper, the following list shows the major focus of the content of the exam:

- 4.5.2 The human nervous system
- 4.5.3 Hormonal control in humans
- 4.5.4 Plant hormones
- 4.6.1 Reproduction
- 4.7.2 Organisation of an ecosystem

Required practical activities that will be assessed:

- Required practical activity 8: investigate the effect of light on the growth of newly germinated seedlings.
- Required practical activity 9: measure the population size of a common species in a habitat.

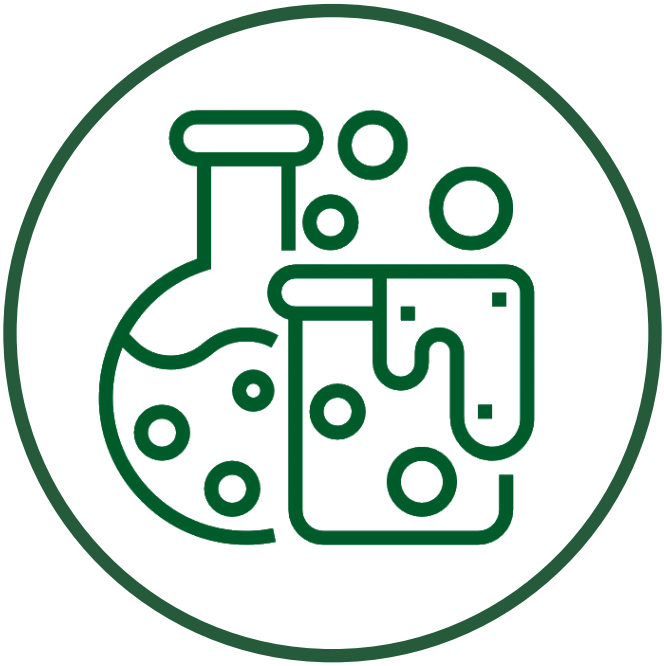
Topics not assessed in this paper:

- 4.5.2.1 Structure and function
- 4.5.2.2 The brain
- 4.5.2.3 The eye
- 4.5.3.4 Hormones in human reproduction
- 4.5.3.5 Contraception
- 4.5.3.6 The use of hormones to treat infertility
- 4.5.3.7 Negative feedback
- 4.5.4.2 Use of plant hormones
- 4.6.1.3 Advantages and disadvantages of sexual and asexual reproduction
- 4.6.1.8 Sex determination
- 4.6.2 Variation and evolution
- 4.6.3 The development of understanding of genetics and evolution
- 4.6.4 Classification of living organisms
- 4.7.1.4 Adaptations
- 4.7.2.4 Impact of environmental change
- 4.7.3.1 Biodiversity
- 4.7.3.4 Deforestation
- 4.7.3.6 Maintaining biodiversity
- 4.7.4.1 Trophic levels
- 4.7.4.2 Pyramids of biomass
- 4.7.5.3 Sustainable fisheries
- 4.7.5.4 Role of biotechnology

Advance Information for GCSE Examinations

Horizon Community College

GCSE Chemistry



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- It is advised that teaching and learning should still cover the entire subject content in the specification, so that students are as wellprepared as possible for progression to the next stage of their education.
- Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification.
- Students will still be expected to apply their knowledge to unfamiliar contexts.

Paper 1H 8462/1H

For this paper, the following list shows the major focus of the content of the exam:

- 4.1.2 The periodic table
- 4.2.1 Chemical bonds, ionic, covalent and metallic
- 4.2.2 How bonding and structure are related to the properties of substances
- 4.2.3 Structure and bonding of carbon
- 4.3.2 Use of amount of substance in relation to masses of pure substances
- 4.4.1 Reactivity of metals
- 4.4.2 Reactions of acids
- 4.4.3 Electrolysis
- 4.5.1 Exothermic and endothermic reactions

Required practical activities that will be assessed:

- Required practical activity 1: preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.
- Required practical activity 2: determination of the reacting volumes of solutions of a strong acid and a strong alkali by titration.
- Required practical activity 4: investigate the variables that affect temperature changes in reacting solutions such as, eg, acid plus metals, acid plus carbonates, neutralisations, displacement of metals.

Topic not assessed in this paper:

- 4.2.4 Bulk and surface properties of matter including nanoparticles

Paper 2F 8462/2F

For this paper, the following list shows the major focus of the content of the exam:

- 4.6.1 Rate of reaction
- 4.6.2 Reversible reactions and dynamic equilibrium
- 4.7.1 Carbon compounds as fuels and feedstock
- 4.8.3 Identification of ions by chemical and spectroscopic means
- 4.9.1 The composition and evolution of the Earth's atmosphere
- 4.10.1 Using the Earth's resources and obtaining potable water
- 4.10.2 Life cycle assessment and recycling
- 4.10.4 The Haber process and the use of NPK fertilisers

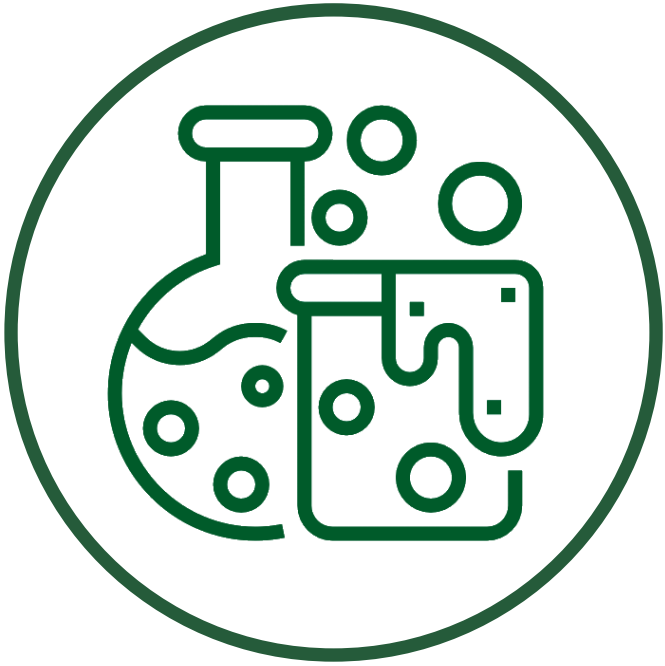
Required practical activities that will be assessed:

- Required practical activity 5: investigate how changes in concentration affect the rates of reactions by a method involving measuring the volume of a gas produced and a method involving a change in colour or turbidity. This should be an investigation developing a hypothesis.
- Required practical activity 6: investigate how paper chromatography can be used to separate and tell the difference between coloured substances. Students should calculate Rf values.
- Required practical activity 7: use of chemical tests to identify the ions in unknown single ionic compounds covering the ions from sections Flame tests through to Sulfates.
- Required practical activity 8: analysis and purification of water samples from different sources, including pH, dissolved solids and distillation.

Topic not assessed in this paper:

- 4.8.2 Identification of common gases

GCSE Physics



Information

- The format/structure of the papers remains unchanged.
- This advance information covers all examined components.
- For each paper the list shows the major focus of the content of the exam.
- Each paper may cover some, or all, of the content in the listed topic.
- Another list shows which required practical activities will be assessed.
- Topics not assessed either directly or through 'linked' content have also been listed.
- The information is presented in specification order and not in question order.
- Assessment of practical skills, maths skills, and Working Scientifically skills will occur throughout all the papers.
- It is not permitted to take this advance information into the exam.

Advice

- It is advised that teaching and learning should still cover the entire subject content in the specification, so that students are as wellprepared as possible for progression to the next stage of their education.
- Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification.
- Students will still be expected to apply their knowledge to unfamiliar contexts.

Paper 1H 8463/1H

For this paper, the following list shows the major focus of the content of the exam:

- 4.1.1 Energy changes in a system, and the ways energy is stored before and after
- such changes
- 4.1.2 Conservation and dissipation of energy
- 4.2.4 Energy transfers
- 4.3.1 Changes of state and the particle model
- 4.3.2 Internal energy and energy transfers

Required practical activities that will be assessed:

- Required practical activity 2: investigate the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material.
- Required practical activity 5: use appropriate apparatus to make and record the measurements needed to determine the densities of regular and irregular solid objects and liquids. Volume should be determined from the dimensions of regularly shaped objects, and by a displacement technique for irregularly shaped objects. Dimensions to be measured using appropriate apparatus such as a ruler, micrometer or Vernier callipers.

Topics not assessed in this paper:

- 4.2.1 Current, potential difference and resistance
- 4.2.2 Series and parallel circuits
- 4.2.3 Domestic uses and safety
- 4.3.3 Particle model and pressure
- 4.4.1 Atoms and isotopes
- 4.4.3 Hazards and uses of radioactive emissions and of background radiation
- 4.4.4 Nuclear fission and fusion

Paper 2H 8463/2H

For this paper, the following list shows the major focus of the content of the exam:

- 4.5.1 Forces and their interactions
- 4.5.2 Work done and energy transfer
- 4.5.3 Forces and elasticity
- 4.5.5 Pressure and pressure differences in fluids
- 4.5.6.1 Describing motion along a line
- 4.5.7 Momentum
- 4.6.1 Waves in air, fluids and solids
- 4.8.1 Solar system; stability of orbital motions; satellites
- 4.8.2 Red-shift

Required practical activity that will be assessed:

- Required practical activity 9: investigate the reflection of light by different types of surface and the refraction of light by different substances.

Topics not assessed in this paper:

- 4.5.4 Moments, levers and gears
- 4.6.2 Electromagnetic waves
- 4.6.3 Black body radiation
- 4.7.1 Permanent and induced magnetism, magnetic forces and fields

GCSE French

Information

- This advance information covers Paper 4: Writing only.
- This advance information covers all the questions except Writing translation questions.
- There is no advance information for Paper 1: Listening, Paper 2: Speaking and Paper 3: Reading, due to the nature of the questions in these papers.
- It is not permitted to take this notice into the exam.

Advice

- Students will be credited for using any relevant knowledge from any other non-listed topic areas when answering questions. Where areas have been listed, there is no expectation of knowledge beyond that identified in order to achieve full marks.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in the Writing translation questions and/or other components.
- The information is presented in specification order and not in question order.

Foundation tier

Theme 1 – Identity and culture
- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues

Theme 3 – Current and future study and employment
- Topic 1: My studies
- Topic 2: Life at school/college
- Topic 4: Jobs, career choices and ambitions

Higher tier

Theme 1 – Identity and culture
- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues

Theme 3 – Current and future study and employment
- Topic 1: My studies
- Topic 2: Life at school/college
- Topic 3: Education post-16
- Topic 4: Jobs, career choices and ambitions

GCSE Polish

Information

- This advance information covers Paper 4: Writing only.
- This advance information covers all the questions except Writing translation questions.
- There is no advance information for Paper 1: Listening, Paper 2: Speaking and Paper 3: Reading, due to the nature of the questions in these papers.
- It is not permitted to take this notice into the exam.

Advice

- Students will be credited for using any relevant knowledge from any other non-listed topic areas when answering questions. Where areas have been listed, there is no expectation of knowledge beyond that identified in order to achieve full marks.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in the Writing translation questions and/or other components.
- The information is presented in specification order and not in question order.

GCSE Polish (8688)

Foundation tier

Theme 1 – Identity and culture
- Topic 2: Technology in everyday life

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues

Theme 3 – Current and future study and employment
- Topic 3: Education post-16
- Topic 4: Jobs, career choices and ambitions

Higher tier

Theme 1 – Identity and culture
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues

Theme 3 – Current and future study and employment
- Topic 2: Life at school/college
- Topic 3: Education post-16
- Topic 4: Jobs, career choices and ambitions

GCSE Spanish

Information

- This advance information covers Paper 4: Writing only.
- This advance information covers all the questions except Writing translation questions.
- There is no advance information for Paper 1: Listening, Paper 2: Speaking and Paper 3: Reading, due to the nature of the questions in these papers.
- It is not permitted to take this notice into the exam.

Advice

- Students will be credited for using any relevant knowledge from any other non-listed topic areas when answering questions. Where areas have been listed, there is no expectation of knowledge beyond that identified in order to achieve full marks.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in the Writing translation questions and/or other components.
- The information is presented in specification order and not in question order.

Foundation tier

Theme 1 – Identity and culture
- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities
- Topic 4: Customs and festivals in Spanish-speaking countries/ communities

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues
- Topic 4: Travel and tourism

Theme 3 – Current and future study and employment
- Topic 1: My studies
- Topic 2: Life at school/college
- Topic 4: Jobs, career choices and ambitions

Higher tier

Theme 1 – Identity and culture
- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 4: Customs and festivals in Spanish-speaking countries/ communities

Theme 2 – Local, national, international and global areas of interest
- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues
- Topic 4: Travel and tourism

Theme 3 – Current and future study and employment
- Topic 1: My studies
- Topic 2: Life at school/college
- Topic 3: Education post-16
- Topic 4: Jobs, career choices and ambitions

GCSE Business Studies

Pearson Edexcel Level 1/Level 2 (GCSE 9–1)

May–June 2022 Assessment Window

Syllabus reference **1BS0**

Business

Advance Information

Information

- The format/structure of the assessments remains unchanged.
- This advance information notice details the focus of the content of the exams in the May–June 2022 assessments.
- There are no restrictions on who can use this notice.
- This notice is meant to help students to focus their revision time.
- Students and teachers can discuss the advance information.

Advice

- Students and teachers should consider how to focus their revision of other parts of the specification, for example to review whether other topics may provide knowledge which helps your understanding in relation to the areas being tested in 2022.
- Students should only refer to the advance information for components for which they intend to sit examinations, for example for specifications with optional papers.
- It is advised that teaching and learning should still cover the entire subject content in the specification. The government believes it is important that students cover the curriculum as fully as possible, so that they are as well prepared as possible for progression to the next stage of their education.

Adannce Information

Subject specific section

- For our Pearson Edexcel GCSE Business, for both the component 01 and the component 02 examination papers, questions within these papers will sample content only from the areas specified in this notice.
- Teachers may choose to focus their teaching and revision on the content set out in this document, but should aim where possible to do so only once the full content of the course has been delivered.
- Students will not be disadvantaged if solely using the areas indicated in this document. Students' responses to individual questions may draw upon other areas of specification content where relevant, and credit will be given for this where appropriate. Students can draw upon knowledge, skills and understanding from across the specification when responding to synoptic questions, and again credit will be given where this occurs beyond the content listed.
- The specification content is presented in numerical order as set out in the specification, and not reflecting the question order of the examination papers. Some questions may be answerable using more than one area of specified content. Any content listed may appear in the examination papers in any question style, from MCQs (multiple choice questions) through to higher tariff extended response questions.
- Quantitative skills relevant to each component are included in this information.

Paper 1 (1BS0/01)

Topic 1.1 Enterprise and entrepreneurship
- 1.1.2 Risk and reward
- 1.1.3 The role of business enterprise

Topic 1.2 Spotting a business opportunity
- 1.2.2 Market research
- 1.2.3 Market segmentation

Topic 1.3 Putting a business idea into practice
- 1.3.1 Business aims and objectives
- 1.3.2 Business revenues, costs and profits
- 1.3.3 Cash and cash-flow
- 1.3.4 Sources of business finance

Topic 1.4 Making the business effective
- 1.4.1 The options for start-up and small business
- 1.4.2 Business location
- 1.4.3 The marketing mix

Topic 1.5 Understanding external influences on business
- 1.5.1 Business stakeholders
- 1.5.2 Technology and business
- 1.5.3 Legislation and business
- 1.5.4 The economy and business
- 1.5.5 External influences

Appendix 2: Quantitative skills
Calculation
- **Calculations in a business context, including:**

1. *percentages and percentage changes*
2. *revenue, costs and profit*
3. *cash-flow forecasts, including total costs, total revenue and net cash flow*

Interpretation
- **Interpretation and use of quantitative data in business contexts to support, inform and**

1. *justify business decisions, including:*
2. *information from graphs and charts*
3. *market data, including market share, changes in costs and changes in prices*

Paper 2 (1BS0/02)

Topic 2.1 Growing the business
- 2.1.1 Business growth
- 2.1.3 Business and globalisation
- 2.1.4 Ethics, the environment and business

Topic 2.2 Making marketing decisions
- 2.2.1 Product
- 2.2.3 Promotion
- 2.2.4 Place
- 2.2.5 Using the marketing mix to make business decisions

Topic 2.3 Making operational decisions
- 2.3.1 Business operations
- 2.3.2 Working with suppliers
- 2.3.4 The sales process

Topic 2.4 Making financial decisions
- 2.4.1 Business calculations
- 2.4.2 Understanding business performance

Topic 2.5 Making human resource decisions
- 2.5.1 Organisational structures
- 2.5.4 Motivation

Appendix 2: Quantitative skills

Calculation
- **Calculations in a business context, including:**

1. *averages*
2. *revenue, costs and profit*
3. *gross profit margin and net profit margin ratios*
4. *average rate of return*

Interpretation
- **Interpretation and use of quantitative data in business contexts to support, inform and justify business decisions, including:**

1. *information from graphs and charts*
2. *market data, including market share, changes in costs and changes in prices*

Horizon Community College

GCSE Citizenship Studies

Information

- For each paper the list shows the major focus of the content of the exam.
- The information is presented in specification order and not in question order.
- This notice does not apply to questions worth fewer than 4 marks.
- Advance information is not provided for the student investigation, in Paper 1 Section A, due to the nature of these questions.
- Some questions may be answerable using more than one area of specified content, including ones not listed.

Advice

- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in lower mark questions.
- Students will still be expected to apply their knowledge to unfamiliar contexts.
- Students will still be expected to show knowledge and understanding of the relationships between the different citizenship aspects studied, using the concepts to make connections, identify and compare similarities and differences in a range of situations from local to global.

Paper 1

- **3.2.2** The United Kingdom of Great Britain and Northern Ireland is comprised of England, Northern Ireland, Scotland and Wales. The impact of this on identity debates.

- **3.2.5** Two different examples of how citizens working together, or through groups, attempt to change or improve their communities through actions to either address public policy, challenge injustice or resolve a local community issue.

- **3.4.1** The institutions of the British constitution: the power of government, the Prime Minister and cabinet; the sovereignty of Parliament; the roles of the legislature, the opposition, political parties, the Monarch, citizens, the judiciary, the police and the Civil Service.

- **3.4.2** How powers are organised between the Westminster Parliament and the devolved administrations in Northern Ireland, Scotland and Wales; how relations are changing between England, Scotland, Wales and Northern Ireland; the debate about 'English votes for English laws'.

- **3.4.2** Issues relating to voter turnout, voter apathy and suggestions for increasing voter turnout at elections.

- **3.4.2** How public taxes are raised and spent by government locally and nationally.

- **3.4.2** Different viewpoints and debates about how governments and other service providers make provision for welfare, health, the elderly and education.

- **3.4.3** How parliament works: scrutinising government and making it accountable; parliamentary questions, committees, debates.

- **3.4.5** The different forms of action citizens can take to hold those in power to account for their actions; how the citizen can contribute to public life by joining an interest group or political party: standing for election; campaigning; advocacy; lobbying; petitions; joining a demonstration; volunteering.

Paper 2

- **3.2.1** Key factors that create individual, group, national and global identities.
- **3.2.2** The need for mutual respect and understanding in a diverse society and the values that underpin democratic society.
- **3.2.3** The operation of press regulation and examples of where censorship is used.
- **3.2.4** The role of the UK within the United Nations, NATO, the European Union (EU), the Council of Europe, the Commonwealth and the World Trade Organisation (WTO).
- **3.2.4** How the UK has assisted in resolving international disputes and conflicts, and the range of methods used.
- **3.2.4** How non-governmental organisations (NGOs) respond to humanitarian crises.
- **3.3.1** Rights in local to global situations where there is conflict and rights and responsibilities need to be balanced.
- **3.3.3** Common law, legislation and how they differ.
- **3.3.3** The right to representation; the role and history of trade unions in supporting and representing workers; the role of employers' associations.
- **3.3.3** The nature of criminality in the UK today:

o differing types of crimes
o profile of criminality in the UK
o factors affecting crime rates in society and strategies to reduce crime.

- **3.3.3** *How we deal with those who commit crime.*

o differing forms of punishment available in the UK.
o the purposes of sentencing.
o the effectiveness of differing types of sentence.
o how the youth justice system operates.

- **3.3.5** How do citizens play a part to bring about change in the legal system?
- **3.4.1** Where does political power reside in the UK and how is it controlled?
- **3.4.2** The practice of budgeting and managing risk and how it is used by government to manage complex decisions about the allocation of public funding.
- **3.4.5** How can citizens try to bring about political change?

Horizon Community College

GCSE Physical Education

Information

- This advance information covers all examined components.
- For each paper the list shows the major focus of the content of the exam.
- Topics not explicitly given in the list may appear in multiple-choice questions, low tariff questions or via synoptic questions. Synoptic questions are those that bring together knowledge, skills and understanding from across the specification.

Advice

- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in lower mark questions.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, for example to review whether other topics may provide knowledge which helps understanding in relation to the areas being tested in 2022.
- Students will be credited for using any relevant knowledge from any non-listed topic areas when answering questions.
- Students will still be expected to apply their knowledge.
- Students will be expected to draw on knowledge, skills and understanding from across the specification when responding to synoptic questions.

Paper 1: ***The human body and movement in physical activity and sport***

3.1.1.1 The structure and functions of the musculoskeletal system
- How the major muscles and muscle groups of the body work antagonistically on the major joints of the skeleton to affect movement in physical activity at the major movable joints

3.1.1.2 The structure and functions of the cardio-respiratory system
- Blood vessels
- Mechanics of breathing – the interaction of the intercostal muscles, ribs and diaphragm in breathing
- Interpretation of a spirometer trace

3.1.1.3 Anaerobic and aerobic exercise
- The use of aerobic and anaerobic exercise in practical examples of differing intensities

3.1.1.4 The short- and long-term effects of exercise
- Long-term effects of exercise (months and years of exercising)

3.1.2.1 Lever systems, examples of their use in activity and the mechanical advantage they provide in movement
- Analysis of basic movements in sporting examples

3.1.3.2 The components of fitness, benefits for sport and how fitness is measured and improved
- Linking sports and physical activity to the required components of fitness
- Reasons for and limitations of fitness testing

3.1.3.5 Effective use of warm up and cool down
- Warming up and cooling down

Paper 2: ***Socio-cultural influences and well-being in physical activity and sport***

3.2.1.1 Classification of skills (basic/complex, open/closed)
- Classifications of skill

3.2.1.3 Basic information processing
- Basic information processing model

3.2.2.1 Engagement patterns of different social groups in physical activity and sport
- Engagement patterns of different social groups and the factors affecting participation

3.2.2.2 Commercialisation of physical activity and sport
- Positive and negative impacts of sponsorship and the media
- Positive and negative impacts of technology

3.2.2.3 Ethical and socio-cultural issues in physical activity and sport
- Prohibited substances
- Reasons why hooliganism occurs
- Strategies employed to combat hooliganism/spectator behaviour

3.2.3.3 Energy use, diet, nutrition and hydration
- Nutrition – the role of carbohydrates, fat, protein and vitamins/minerals
- Reasons for maintaining water balance (hydration)

GCSE Religious Studies

Information

- This advance information covers Paper 1 *(The study of religions components).*
- There is no advance information for Paper 2 *(Thematic Studies).*
- The information below identifies the main subject topic areas used as the primary focus of questions in the 2022 assessments.
- The information for each Religion is presented in specification order and not in question order.

Advice

- Students may need to draw on other specification content within their responses to be able to access the full range of marks.

8062/13 Christianity

Beliefs and teachings

The nature of God:
- the oneness of God and the Trinity: Father, Son and Holy Spirit.

Different Christian beliefs about creation including the role of Word and Spirit (John 1:1–3 and Genesis 1:1–3).

Different Christian beliefs about the afterlife and their importance, including: resurrection and life after death; judgement, heaven and hell.

Beliefs and teachings about:
- *the crucifixion, resurrection and ascension*
- *the means of salvation, including law, grace and Spirit*
- *the role of Christ in salvation including the idea of atonement.*

Practices

The role and meaning of the sacraments:
- *the sacrament of baptism and its significance for Christians; infant and believers' baptism; different beliefs about infant baptism.*

The role and importance of celebrations including:
- *the celebrations of Christmas and Easter, including their importance for Christians in Great Britain today.*

The place of mission, evangelism and Church growth.

The importance of the worldwide Church including:
- *working for reconciliation*
- *how Christian churches respond to persecution.*

Component 1: The study of religions

8062/15 Islam

Beliefs and teachings

The nature of God: omnipotence, beneficence, mercy, fairness and justice/Adalat in Shi'a Islam, including different ideas about God's relationship with the world: immanence and transcendence.

Angels, their nature and role, including Jibril and Mika'il.

Risalah (Prophethood) including the role and importance of Adam, Ibrahim and Muhammad.

The holy books:
- *Qur'an: revelation and authority*
- *the Torah, the Psalms, the Gospel, the Scrolls of Abraham and their authority.*

The imamate in Shi'a Islam: its role and significance.

Practices

- Salah and its significance: how and why Muslims pray including times, directions, ablution (wudu), movements (rak'ahs) and recitations; salah in the home and mosque and elsewhere; Friday prayer: Jummah; key differences in the practice of salah in Sunni and Shi'a Islam, and different Muslim views about the importance of prayer.

- Zakah: the role and significance of giving alms including origins, how and why it is given, benefits of receipt, Khums in Shi'a Islam.

- Hajj: the role and significance of the pilgrimage to Makkah including origins, how hajj is performed, the actions pilgrims perform at sites including the Ka'aba at Makkah, Mina, Arafat, Muzdalifah and their significance.

- Jihad: different understandings of jihad: the meaning and significance of greater and lesser jihad; origins, influence and conditions for the declaration of lesser jihad.

- Festivals and commemorations and their importance for Muslims in Great Britain today, including the origins and meanings of Id-ul-Adha, Id-ul-Fitr, Ashura.

GCSE Sociology

Information

- This advance information covers all examined components.
- For each paper, the list shows the major focus of the higher tariff extended response questions that appear in each section of the examined components.
- Topics not explicitly given in the list may appear in low tariff questions or via synoptic questions. Synoptic questions are those that bring together knowledge, skills and understanding from across the specification.
- The information is presented in specification order and not in question order.
- • The format and structure of the papers remains unchanged.

Advice

- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, which may be tested in lower mark questions.
- Students and teachers should consider how to focus their revision of other non-listed parts of the specification, for example to review whether other topics may provide knowledge which helps understanding in relation to the areas being tested in 2022.
- Students will still be expected to apply their knowledge to unfamiliar contexts.
- Students will be expected to draw on knowledge, skills and understanding from across the specification when responding to synoptic questions.

Paper 1: The sociology of families and education

3.3 Families

3.3.2 Family forms
- How family forms differ in the UK and within a global context.

3.3.6 Divorce
- Changes in the pattern of divorce in Britain since 1945 and the consequences of divorce for family members and structures.

3.4 Education

3.4.1 Roles and functions of education
- Different views of the role and functions of education.

3.4.4 Processes within schools
- Processes within schools affecting educational achievement.

Paper 2: The sociology of crime and deviance and social stratification

3.5 Crime and deviance

3.5.1 The social construction of crime and deviance
- The social construction of concepts of crime and deviance and explanations of crime and deviance.

3.5.2 Social control
- Formal and informal methods of social control.

3.6 Social stratification

3.6.1 Functionalist theory of stratification
- Different views of the functionalist theory of social stratification.

3.6.4 Poverty as a social issue
- Different interpretations of poverty as a social issue.

GCSE Statistics

Information

- This advance information covers all examined components.
- There are no restrictions on who can use this.
- The format/structure of the papers remains unchanged.
- For each paper the list shows the major focus of questions.
- The information is presented in specification order and not in question order.
- You are not permitted to take this advance information into the exam.
- There are separate lists for Foundation and Higher tiers.

Advice

- The following areas of content are suggested as key areas of focus for revision and final preparation, in relation to the June 2022 examinations.
- Students and teachers should consider how to revise other parts of the specification, for example to review whether other topics may provide knowledge which helps your understanding in relation to the areas being tested in June 2022. Statistics by nature is a synoptic subject and other aspects of the content may be required when answering questions.
- Students will be credited for using any relevant or appropriate knowledge from any topic areas when answering questions.

Foundation Tier
Paper 1 8382/1F June 2022

Selection and Collection of Data
- Hypothesis
- Types of data
- Primary and secondary data
- Data source
- Random sample
- Collected data
- Processing data
- Reliability

Representations and their Interpretation
- Pictogram
- Tally chart
- Choropleth
- Population pyramid
- Scatter diagram
- Bar chart
- Percentage composite bar chart
- Appropriate diagram
- Criticise diagram
- Secondary data table
- Interpret graph

Calculation and Interpretation of Measures
- Skew
- Trends
- Moving average
- Birth rate
- Consumer Price Index (CPI)
- Index number
- Causation

Probability
- Simple probability
- Risk
- Independent events
- Two-way table

Foundation Tier
Paper 2 8382/2F June 2022

Selection and Collection of Data
Hypothesis
Validity
Data collection
Opportunity sampling
Random sampling
Question design

Representations and their Interpretation
Venn diagram
Pie chart
Stem and leaf
Choropleth
Line graph
Scatter diagram
Bar chart
Cumulative frequency diagram
Box plot
Dual bar chart
Appropriate diagram
Criticise diagram
Line of best fit
Secondary data table
Interpret graph

Calculation and Interpretation of Measures
Median from diagram
Measures of average
Cumulative frequency
Lower and Upper Quartile from diagram
Lower Quartile
Range
Percentage
Rate calculation
Extrapolation
Causation

Probability
Simple probability
Venn diagram
Estimate population characteristic

GCSE Statistics (8382)

Horizon Community College

Foundation Tier Aggregated Content
June 2022

Selection and Collection of Data
- Hypothesis
- Types of data
- Primary and secondary data
- Data source
- Data collection
- Validity
- Reliability
- Random sample
- Opportunity sampling
- Random sampling
- Collected data
- Processing data
- Question design

Representations and their Interpretation
- Pictogram
- Tally chart
- Venn diagram
- Pie chart
- Stem and leaf
- Choropleth
- Population pyramid
- Line graph
- Scatter diagram
- Bar chart
- Percentage composite bar chart
- Cumulative frequency diagram
- Box plot
- Dual bar chart
- Criticise diagram
- Appropriate diagram
- Line of best fit
- Secondary data table
- Interpret graph

Calculation and Interpretation of Measures
- Skew
- Median from diagram
- Measures of average
- Cumulative frequency
- Lower and Upper Quartile from diagram
- Lower Quartile
- Range
- Trends
- Percentage
- Moving average
- Birth rate
- Rate calculation
- Consumer Price Index (CPI)
- Index number
- Extrapolation
- Causation

Probability
- Simple probability
- Risk
- Independent events
- Two-way table
- Venn diagram
- Estimate population characteristic