

JOG School KS4 Advance Information Booklet

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Subject: Art

Exam board:

Edexcel

Level of qualification: GCSE			
Changes to coursework Optional content			
Students only complete one main portfolio. This includes a sketchbook of work and a final piece. The main theme for this project has been Fragments.	Students can also include the first course work project Fantastic and Strange from year 10 as extra work		
Support materials			
 N/A but the timeline is: Friday 1st April – Sketchbook deadline – books handed in C1 by 2pm WB 4th April - students start final piece 9th April- 24th April Easter holiday WB 25th April students working on final piece Tuesday 3rd May - art/photo Exam (this is an inset day) students need to be in by 830am Friday 13th May - final piece deadline, hand in by 2pm Friday 27th May - Final hand in – end of course 			
Advance Information			
N/A Some further useful info <u>https://qualifications.pearson.com/en/qualifications/edexcel-gcses/art-and-design-2016/summer-2022-support.html</u> <u>https://qualifications.pearson.com/content/dam/pdf/GCSE/Art%20and%20Design/2016/teaching -and-learning-materials/gcse-art-and-design-2022-faqs.pdf</u>			

Subject: Biology - Triple

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content		
N/A	N/A		
Support materials			
All details on advanced information for GCSE Biology can be f	found here:		
https://filestore.aqa.org.uk/content/summer-2022/AQA-846	1-AI-22.PDF		
Advance Information			
Paper one:			
Spec points		Н	F
4.1. CELL BIOLOGY			
4.1.1 CELL STRUCTURE			
4.1.1.1 Eukaryotes & Prokaryotes		G	G
4.1.1.2 Animal & Plant Cells		G	G
4.1.1.3 Cell Specialisation		G	G
4.1.1.4 Cell Differentiation		G	R
4.1.1.5 Microscopy		G	G
4.1.1.6 Culturing microorganisms		G	G
4.1.2 CELL DIVISION			
4.1.2.1 Chromosomes		А	A
4.1.2.2 Mitosis and the Cell Cycles		А	A
4.1.2.3 Stem Cells		А	Α
4.1.3 TRANSPORT IN CELLS			
4.1.3.1 Diffusion		G	G
4.1.3.2 Osmosis		G	G
4.1.3.3 Active Transport		G	G
4.2 ORGANISATION			
4.2.1 PRINCIPLES OF ORGANISATION		А	R
4.2.2 ANIMAL TISSUES, ORGANS & ORGAN SYSTEMS			
4.2.2.1 The Human Digestive System		G	G
4.2.2.2 The Heart & Blood Vessels		G	G
4.2.2.3 Blood		R	R
4.2.2.4 Coronary heart Disease: a non-communicable dise	ase	G	G
4.2.2.5 Health Issues		G	G
4.2.2.6 The effect of Lifestyle on some non communicable	diseases	G	G
4.2.2.7 Cancer		R	R
4.2.3 PLANT TISSUES ORGANS & SYSTEMS			
4.2.3.1 Plant Tissues		G	A
4.2.3.2 Plant Organ Systems		G	A
4.3 INEFECTION & RESPONSE			
4.3.1 COMMUNICABLE DISEASES			
4.3.1.1 Communicable (infectious) Diseases		G	G
4.3.1.2 Viral Diseases		G	G
4.3.1.3 Bacterial Diseases		G	G

4.3.1.4 Fungal Diseases	G	G
4.3.1.5 Protist Diseases	G	R
4.3.1.6 Human Defence Systems	G	G
4.3.1.7 Vaccinations	G	G
4.3.1.8 Antibiotics & Painkillers	R	G
4.3.1.9 Discovery and development of drugs	R	G
4.3.2 Monoclonal antibodies	G	R
4.3.3 Plant disease	G	G
4.4 BIOENERGETICS		
4.4.1 PHOTOSYNTHESIS		
4.4.1.1. Photosynthetic Reaction	А	G
4.4.1.2 Rate of Photosynthesis	А	G
4.4.1.3 Uses of Glucose from Photosynthesis	А	R
4.4.2 RESPIRATION		
4.4.2.1 Aerobic & Anaerobic Respiration	A	R
4.4.2.2 Response to Exercise	R	R
4.4.2.3 Metabolism	A	R

Required practical's that will be assessed in F: Required practical activity 1, 3, 4 & 6

Required practical's that will be assessed in H: Required practical activity 1, 3 & 4

Paper two		
Spec points	н	F
4.5 HOMEOSTATSIS & RESPONSE		
4.5.1 HOMEOSTASIS	А	G
4.5.2 THE HUMAN NERVOUS SYSTEM	G	G
4.5.2.1 Structure & function	R	G
4.5.2.2 The brain	R	R
4.5.2.3 The eye	R	R
4.5.2.4 Control of body temperature	G	G
4.5.3 HORMONAL COORDINATION IN HUMANS		
4.5.3.1 Human Endocrine System	G	G
4.5.3.2 Control of blood glucose concentration	G	G
4.5.3.3 Maintaining water and nitrogen	G	R
4.5.3.4 Hormones in human reproduction	R	G
4.5.3.5 Contraception	R	G
4.5.3.6 The use of Hormones to treat infertility (HT Only)	R	R
4.5.3.7 Feedback system (HT Only)	R	R
4.5.4 Plant hormones		
4.5.4.1 Control and coordination	G	G
4.5.4.2 Use of plant hormones (HT only)	R	R
4.6 INHERITANCE, VARIATION & EVOLUTION		
4.6.1 REPRODUCTION		
4.6.1.1 Sexual & Asexual reproduction	G	G
4.6.1.2 Meiosis	G	G
4.6.1.3 Advantages and disadvantages of sexual and asexual reproduction	R	R
4.6.1.4 DNA & Genome	G	G
4.6.1.5 DNA structure	G	G
4.6.1.6 Genetic Inheritance	G	G

4.6.1.7 Inherited Disorders	G	G
4.6.1.8 Sex Determination	R	R
4.6.2 VARIATION AND EVOLUTION		
4.6.2.1 Variation	R	R
4.6.2.2 Evolution	R	R
4.6.2.3 Selective Breeding	R	А
4.6.2.4 Genetic Engineering	R	А
4.6.2.5 Cloning	R	А
4.6.3 THE DEVELOPMENT OF GENETICE AND EVOLUTION		
4.6.3.1 Theory of evolution	R	R
4.6.3.2 Speciation	R	R
4.6.3.3 Understanding of genetics	R	R
4.6.3.4 Evidence for Evolution	R	G
4.6.3.5 Fossils	R	G
4.6.3.6 Extinction	R	G
4.6.3.7 Resistant Bacteria	R	R
4.6.4 CLASSIFICATION OF LIVING ORGANISMS	R	А
4.7 ECOLOGY		
4.7.1 ADAPTATION, INTERDEPENDENCE & COMPETITION		
4.7.1.1 Communities	А	А
4.7.1.2 Abiotic Factors	A	А
4.7.1.3 Biotic Factors	А	А
4.7.1.4 Adaptations	R	R
4.7.2 ORGANISATION OF AN ECOSYSTEM		
4.7.2.1 Levels of Organisation	G	
4.7.2.2 How materials are cycled	G	R
4.7.2.3 Decomposition	G	R
4.7.2.4 Impact of environmental change	R	
4.7.3 BIODIVERSITY & EFFECT OF HUMAN INTERACTION ON ECOSYSTEMS		
4.7.3.1 Biodiversity	R	R
4.7.3.2 Waste Management	A	
4.7.3.3 Land Use	A	R
4.7.3.4 Deforestation	R	R
4.7.3.5 Global warming	А	R
4.7.3.6 Maintaining Biodiversity	R	R
4.7.4 TROPHIC LEVELS IN AN ECOSYSTEM	А	R
4.7.4.1 Trophic levels	R	R
4.7.4.2 Pyramids of biomass	R	R
4.7.4.3 Transfer of biomass	A	R
4.7.5 FOOD PRODUCTION	А	R
4.7.5.1 Factors affecting food security	А	R
4.7.5.2 Farming techniques	А	R
4.7.5.3 Sustainable fisheries	R	R
4.7.5.4 Role of biotechnology	R	R

Required practical that will be assessed in F: Required practical activity 7, 8 & 9

Required practical that will be assessed in H: Required practical activity 8 & 9

Subject: Business Studies

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content
N/A	N/A
Support materials	
N/A from exam board	
Please see revision materials provided in class	
Advance Information	

- This notice covers all examined components
- For each paper the list shows the major focus of the content of the exam.
- Students will 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
- 3.1 Business in the real world

	Component 1	Component 2
3.1.1 The purpose and nature of businesses	 Purpose of business Basic functions and types of business Dynamic nature of business 	
3.1.2 Business ownership	 Partnerships Private limited companies (Itd) 	 Public limited companies (plc)
3.1.3 Setting business aims and objectives	 What are business aims and objectives Purpose of setting objectives 	
3.1.6 Business planning	 Basic financial terms* Basic financial calculations 	The purpose of business planning
3.1.7 Expanding a business	 Methods of expansion Benefits and drawbacks of expansion Diseconomies of scale 	 Methods of expansion

3.2 Influences on business

	Component 1	Component 2
3.2.2 Ethical and environmental considerations		 Ethical considerations Sustainability: global warming using scarce resources
3.2.3 The economic climate on businesses		 Interest rates: how fluctuating interest rates can affect businesses that rely on overdrafts and loans for finance how fluctuating interest rates can affect consumer and business spending Consumer spending
3.2.5 Legislation	Consumer law	

3.3 Business operations

	Component 1	Component 2
3.3.1 Production processes	Methods of production: • flow	
	Efficiency in production: • lean production	
3.3.2 The role of procurement	Managing stock: • Just in time (JIT) • Just in case (JIC)	
3.3.3 The concept of quality	Methods of maintaining consistent quality: Total quality management (TQM)	
3.3.4 Good customer services	Benefits of good customer service, including: • increase in customer satisfaction • customer loyalty • increased spend • profitability	
	The ways in which advances in ICT have allowed customer services to develop: • websites • e-commerce	

3.4 Human Resources

	Component 1	Component 2
3.4.1 Organisational structures	Organisational structuresAppropriateness of	
3.4.2 Recruitment and	organisational structures Methods of recruitment	
selection of employees	and selection of employees	
3.4.3 Motivating employees	 Importance of motivation in the workforce Methods to motivate staff 	
3.4.4 Training	Importance of training the workforce	
	 Types of training undertaken by businesses 	

3.5 Marketing

	Component 1	Component 2
3.5.3 The purpose and		Purpose of market research
methods of market research		Methods of market research
3.5.4 The elements of the		Pricing methods, including:
marketing mix: price, product,		 loss leader
promotion and place (4Ps)		The factors that influence
		pricing decisions, including:
		costs
		 nature of the market
		 degree of competition
		 product life cycle
		Product
		Product differentiation:
		 unique selling point
		(USP)
		 brand image
		The product life cycle:
		research and development
		 introduction
		growth
		maturity
		decline
		 extension strategies:
		 updating packaging
		 adding more or
		different features
		 changing target market
		 advertising
		 price reduction
		Product portfolio
		Promotional methods:
		• PR
		 sponsorship
		Reasons for promotion:
		 inform/remind
		customers about the
		product
		 create or increase
		sales
		 create or change the
		image of the product
		persuade customers to
		buy the product
		Place (the different channels
		of distribution used by
		businesses):
		telesales
		Integrated nature of the
		marketing mix

3.6 Finance

3.6.1 Sources of finance	 Methods businesses use to raise finance Appropriateness of sources of finance
3.6.2 Cash flow	 Interpreting cash flow forecasts
3.6.3 Financial terms and calculations	 Basic financial terms Basic financial calculations* Average rate of return Break-even
3.6.4 Analysing the financial performance of a business	 Components of financial statements

6 Appendix: quantitative skills in business

6.1 Calculation	averagesrevenue, costs and profit	 gross profit margin and net profit margin ratios average rate of return
		 cash flow forecasts, including total costs, total revenue and net cash flow
6.2 Interpretation	 information from graphs and charts 	 information from graphs and charts

All details on advanced information for GCSE Business can be found here: https://filestore.aqa.org.uk/content/summer-2022/AQA-8132-AI-22.PDF

Subject: Chemistry - Triple

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content		
NA	N/A		
Support materials			
N/A in exams			
All details on advanced information for GCSE Chem	istry can be found here:		
https://filestore.aga.org.uk/content/summer-2022	/AOA-8462-AI-22 PDF		
	///Q//0402///22.101		
Advance Information			
	Г		
GCSE Triple Chemistry		Major focu	s G
dest mple chemistry		Not assoss	A R
1 Dapor 1		NOT 35555	
Spec points		н	F
4.1 ATOMIC STRUCTURE & PERIODIC TABLE			
4.1.1 A SIMPLE MODEL OF ATOM, SYMBOLS & RELATIVE A	TOMIC MASS		
4.1.1.1 Atoms, Elements and Compounds		A	G
4.1.1.2 Mixtures		A 	G
4.1.1.4 Relative electrical Charge of subatomic particles		<u>А</u>	G
4.1.1.5 Size & Mass of atoms		A	G
4.1.1.6 Relative Atomic Mass		A	G
4.1.1.7 Electronic Structure		А	G
4.1.2 THE PERIODIC TABLE			
4.1.2.1 The Periodic Table		G	G
4.1.2.2 Development of the Periodic Table		G	G
4.1.2.3 Metals & Non- Metals		G	G
4.1.2.4 Group 0		G	G
4.1.2.5 Group 1 4.1.2.6 Group 7		G	G
4.1.2.6 Group 7			J
4.2 BONDING, STRUCTURE & THE PROPERTIES OF MATTER			
4.2.1 CHEMICAL BONDS, IONIC, COVALENT & METALLIC			
4.2.1.1 Chemical Bonds		G	G
4.2.1.2 Ionic Bonds		G	G
4.2.1.3 Ionic Compounds		G	G
4.2.1.4 Covalent Bonding		G	G
4.2.1.5 Metallic Bonding		G	G
4.2.2 HOW BONDING % STRCUTURE ARE RELATED TO PROP	PERTIES OF SUBSTANCES	0	C
4.2.2.1 The three states of Matter		G	G
4.2.2.2 State symbols 4.2.2.3 Properties of Ionic Compounds		G	G
4.2.2.5 Properties of ionic compounds 4.2.2.4 Properties of small Molecules		G	G
4.2.2.5 Polymers		G	G
4.2.2.6 Giant Covalent Structures	4.2.2.6 Giant Covalent Structures		G
4.2.2.7 Properties of metals & Alloys		G	G
4.2.2.8 Metals as conductors		G	G
4.2.3 STRUCTURE & BONDING OF CARBON			
4.2.3.1 Diamond		G	A
4.2.3.2. Graphite		G	A
4.2.3.3 Graphene & Fullerenes		G	А
4.2.4 BULK AND SURFACE PROPERTIES OF MATTER INCLUD	ING NANOPARTICLES	n	G
4.2.4.1 Bulk Properties of Nanoparticles		R	G
4.2.4.2 Uses of hanoparticles		The second se	0

4.3 QUANTITATIVE CHEMISTRY		
4.3.1 CHEMICAL MEASUREMENTS, CONSERVATION OF MASS & THE QUANTITATIVE INTERPRETATION		
4.3.1.1 Conservation of mass & Balanced chemical equations	A	A
4.3.2.2 Relative Formula Mass	A	A
4.3.1.3 Mass Changes when a reactant or product is a gas	A	A
4.3.1.4 Chemical Measurements	A	A
4.3.2 USE OF AMOUNT OF SUBSTANCE IN RELATION TO MASS OF PURE SUBSTANCE	CES	
4.3.2.1 Moles (HT Only)	G	A
4.3.2.2 Amount of substance equations (HT Only)	G	A
4.3.2.3 Using Moles to balance equations (HT Only)	G	A
4.3.2.4 Limiting reactants (HT Only)	G	A
4.3.2.5 Concentrations of Solutions	G	А
4.4 CHEMICAL CHANGES		
4.4.1 REACTIVITY OF METALS		
4.4.1.1 Metal Oxides	G	A
4.4.1.2 The Reactivity series	G	А
4.4.1.3 Extraction of metals & reduction	G	А
4.4.1.4 Oxidation & Reduction in terms of electrons (HT Only)	G	А
4.4.2 REACTIONS OF ACIDS		
4.4.2.1 Reactions of Acids with Metals	G	G
4.4.2.2 Neutralisation of acids and Salt Production	G	G
4.4.2.3 Soluble Salts	G	G
4.4.2.4 The pH Scale & Neutralisation	G	G
4.4.2.5 Strong & Weak acids (HT Only)	G	G
4.4.3 ELECTROLYSIS	·	
4.4.3.1 The process of Electrolysis	G	А
4.4.3.2 Electrolysis or Molten Ionic Compounds	G	Α
4.4.3.3 Using Electrolysis to extract Metals	G	A
4.4.3.4 Electrolysis of Aqueous Solutions	G	Α
4.5 ENERGY CHANGES		
4.5.1 EXOTHERMIC & ENDOTHERMIC REACTIONS		
4.5.1.1 Energy Transfer during Exo & Endothermic Reactions	G	G
4.5.1.2 Reaction Profiles	G	G
4.5.1.3 The energy change of reactions (HT Only)	G	G
4.5.2 CHEMICAL CELLS AND FUEL CELLS		
4.5.2.1 Cells and batteries	А	R
4.5.2.2 Fuel Cells	А	R

Required practical's that will be assessed in F & H:

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.

Chemistry paper 2		
Spec points	н	F
4.6 THE RATE & EXTENT OF CHEMICAL CHANGE		1
4.6.1 RATE OF REACTION		
4.6.1.1 Calculation rates of Reactions	G	G
4.6.1.2 Factors which affect the rates of chemical reactions	G	G
4.6.1.3 Collision Theory & Activation Energy	G	G
4.6.1.4 Catalysts	G	G
4.6.2 REVERSIBLE REACTIONS & DYNAMIC EQUILIBRIUM		
4.6.2.1 Reversible Reactions	G	G
4.6.2.2 Energy changes & Reversible reactions	G	G
4.6.2.3 Equilibrium	G	G
4.6.2.4 The effect of changing condition on equilibrium (HT only)	G	G
4.6.2.5 The effect of changing concentrations (HT Only)	G	G
4.6.2.6 The effect of Temperature changes on Equilibrium (HT Only)	G	G
4.6.2.7 The effect of pressure changes on equilibrium (HT Only)	G	G
4.7 ORGANIC CHEMISTRY		
4.7.1 CARBON COMPOUNDS AS FUELS & FEEDSTOCK		
4.7.1.1 Crude oil, Hydrocarbons and alkanes	G	G
4.7.1.2 Fractional Distillation and Petrochemicals	G	G
4.7.1.3 Properties of hydrocarbons	G	G
4.7.1.4 Cracking & Akenes	G	G
4.7.2 The REACTIONS OF ALKENES AND ALCOHOLS		
4.7.2.1 Structure and formulae of alkenes	А	Α
4.7.2.2 Reactions of alkenes	A	Α
4.7.2.3 Alcohols	A	Α
4.7.2.4 Carboxylic acids	А	А
4.7.3 SYNTHETIC AND NATURAL OCCURRING POLYMERS		-
4.7.3.1 Addition polymerisation	А	А
4.7.3.2 Condensation polymerisation	А	A
4.7.3.3 Amino acids	А	A
4.7.3.4 DNA	А	Α
4.8 CHEMICAL ANALYSIS		
4.8.1 PURITY, FORMULATION & CHROMATOGRAPHY		
4.8.1.1 Pure substances	А	А
4.8.1.2 Formulations	A	A
4.8.8.1.3 Chromatography	A	A
4.8.2 IDENTIFATION OF COMMON GASES		
4.8.2.1 Test for Hydrogen	А	R
4.8.2.2 Test for Oxygen	A	R
4.8.2.3 Test for Carbon Dioxide	Δ	R
4.8.2.4 Test for Chlorine	A .	P
	A	N
4.9.2.1 Elama tasts	Δ	G
4.0.3.1 Fighter Lesis	A	G
4.0.3.2 Ivietal Hydroxides	A	G
4.8.3.3 Cardonates	A	G

4.8.3.4 Halides	А	G
4.8.3.5 Sulfates	А	G
4.8.3.6 Instrumental methods	А	G
4.8.3.7 Flame emission spectroscopy	А	G
4.9 CHMISTRY OF THE ATMOSPHERE		
4.9.1 THE COMPOSITION & EVOLUTION OF THE EARTH'S ATMOSPHERE		
4.9.1.1 The Proportions of different gases in the atmosphere	G	G
4.9.1.2 The Earths Early Atmosphere	G	G
4.9.1.3 How Oxygen increased	G	G
4.9.1.4 How Carbon Dioxide Decreased	G	G
4.9.2 CARBON DIOXIDE & METHANE AS GREENHOUSE GASES		
4.9.2.1 Greenhouse Gases	R	А
4.9.2.2 Human Activities which contribute to greenhouse gases in atmosphere	R	А
4.9.2.3 Global Climate Change	R	А
4.9.2.4 The carbon footprint and its reduction	R	А
4.9.3 COMMON ATMOSPHERIC POLLUTANTS& THEIR SOURCES		
4.9.3.1 Atmospheric pollutants from fuels	А	А
4.9.3.2 Properties & Effects of atmospheric pollutants	А	А
4.10 USING RESOURCES		
4.10.1 USING THE EARTH'S RESOURCES & OBTAINING POTABLE WATER		
4.10.1.1 Using the Earths resources & sustainable development	G	G
4.10.1.2 Potable water	G	G
4.10.1.3 Waste Water treatment	G	G
4.10.1.4 Alternative methods of extracting metals (HT Only)	G	G
4.10.2 LIFE CYCLE ASSESSMENT & RECYCLING		
4.10.2.1 Life cycle assessment	Α	G
4.10.2.2 Ways of reducing the use of resources	A	G
4.10.3 USING MATERIALS		
4.10.3.1 Corrosion and its prevention	А	А
4.10.3.2 Alloys as useful materials	Α	A
4.10.3.3 Ceramics, polymers and composites	Α	Α
4.10.4 THE HABER PROCESS AND THE USE OF NPK FERTILISERS		
4.10.4.1 The Haber Process	G	G
4.10.4.2 The production and uses of NPK fertilisers	G	G

Required practical that will be assessed in H:

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 7: use of chemical tests to identify the ions in unknown single ionic compounds covering the ions from sections Flame tests through to Sulfates.

Subject: Child Development

Exam board: OCR

Level of qualification: Level 1/2

Changes to coursework	Optional content
R019	N/A
Learning Aim 1 and 2	
Candidates can complete this element by reducing the number of types of	
equipment for candidates to investigate in Task 1 in the set assignment.	
R020	
Learning Aim 3	
For the initial visit candidates can use video recordings of a child at	
play.	
Reduction of planning and carrying out one	
activity than two. Learning Aim 4	
Candidates do not have to use the same child for the initial visit and	
carrying out the planned activity. The play activity can be carried out	
without the candidate present. Video recording or simulated role play can	
be used. The evaluation will be based on feedback from the video	
recording, simulated role play or question and answer session.	
Support materials	
N/A	
Advance Information	
N/A	

Subject: Citizenship

Exam board: OCR

Level of qualification: GCSE

Changes to coursework	Optional content	
N/A	N/A	
Support materials		
N/A in exams		
Year 11 have been emailed the revision guide and their revision. They should contact Mrs Scott if the Advance Information	l a vast variety of resources to help them with ey need these support materials again.	
Very little has been taken out of the GCSE citizenship course from the three exam papers. However, OCR have decided not to include the active campaign that year eleven worked on last year. However, year eleven should still be mindful that they could refer to the campaign in an exam question if they feel it is relevant (e.g. they could be asked what might make a successful campaign in an exam question in paper three, so could refer to their own campaign here and highlight the successes and areas for development).		
All details on advanced information for citizenship can be found here:		

https://www.ocr.org.uk/qualifications/2022-advance-information/

Subject: Computer Science

Exam board: OCR

Level of qualification: GCSE

Changes to coursework	Optional content
N/A (No NEA)	N/A
Support materials	

N/A in exams

Please see revision links on Class charts for the group.

Advance Information

- This notice covers component J277/01 Computer Systems.
- There is no advance information for J277/02 Computational Thinking and Algorithms.
- The topics identified in the Advanced information below will be in the exam paper.
- Any topic not identified that can be linked to those topics may be in the exam

Specification Reference	Name of topic	Sub part of topic directly assessed
1.1 Systems architecture	1.1.1 Architecture of the CPU	The purpose of the CPU
		Common CPU components and their features.
		Von Neumann architecture
1.2 Memory and storage	1.2.1 Primary storage (Memory)	All subtopics to be covered
	1.2.2 Secondary storage	All subtopics to be covered
	1.2.3 Units	The units of data storage
	1.2.4 Data Storage	Numbers.
		Characters.
		Images.
		Sound.
	1.2.5 Compression	All subtopics to be covered
1.3 Computer networks, connections and protocols	1.3.1 Networks and topologies	Factors that affect the performance of networks.
		The hardware needed to connect stand-alone computers into a Local Area Network.
		The Internet as a worldwide collection of computer networks.
	1.3.2 Wired and wireless	Modes of connection.
	networks, protocols and layers	Encryption.
		IP addressing and MAC addressing.
		Standards.
		Common protocols.
1.4 Network security	1.4.2 Identifying and preventing vulnerabilities	Common prevention methods.
1.6 Ethical, legal, cultural and environmental impacts of digital	1.6.1 Ethical, legal, cultural and environmental impact	Impacts of digital technology on wider society.
technology		Legislation relevant to Computer Science.

All details on advanced information for GCSE Computer Science can be found here: https://www.ocr.org.uk/qualifications/2022-advance-information/

Subject: Drama

Exam board: AQA

Level of qualification: GCSE

Advance Information

The drama course is split into three components.

Component 1: Written exam

Exam to be taken in the summer, split into the following sections

- Section A: General Knowledge of theatre
- Section B: 'Blood Brothers'
 - Section C: Live Theatre Review

Component 2: Devising

Practical performance exam previously taken in November Three pieces of coursework, outlined as follows

- Section 1: Initial response to stimulus
- Section 2: Development and collaboration
- Section 3: Analysis and evaluation

Final Deadline for completed coursework will be 1st of April

Component 3: Text in Practice Practical performance exam to be taken 11th March

Changes to course

Component 3: Initially Text in Practice required two extracts from a published play to be learnt and performed. This has been adapted to be a singular extract, the score of which will be doubled.

All other aspects of the course will remain the same.

Support materials

N/A in exams

Materials for revision for the upcoming exam and for coursework completion can be found in the student share: faculty, expressive arts, drama.

Following links will also offer support.

https://www.bbc.co.uk/bitesize/examspecs/zrnjwty

https://www.aqa.org.uk/subjects/drama/gcse/drama-8261

https://www.illuminatepublishing.com/wp-

content/uploads/samples/Blood Brothers Play Guide for AQA GCSE Drama/22/

https://revisionworld.com/a2-level-level-revision/drama-gcse-level/studying-drama/drama-gcse-past-papers/aqa-gcse-drama-past-papers

Subject: English Language

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content	
Spoken Language presentations are not	N/A	
required to be recorded. The audience for the		
presentations can comprise of one person (the		
marker).		
Current meteoriele		
Support materials		
N/A in exams		
2022 Devision Calendar		
2022 Revision Calendar	c (download acr 2filo-9498 two-adf	
nilps://www.jonnojgdunischool.org/dildchment.	s/uownlouu.usp?jiie=848&type=puj	
https://www.iohoofgguptechool.org/attachmont	c (download acr 2filo-1058 two-adf	
nilps://www.jonnojgaunischool.org/allachment.	s/uowniouu.usp?jiie=465&type=puj	
Puper 2 Revision Fourabe Channel	CoorVup7DVId4pbldQVa	
<u>www.youtube.com/pluyiistriist=PLqGrswj-P-cB-c</u>	<u>3SeqTup7PXIu4pbluQvq</u>	
There is no advance information for Paner 1		
Paper 2:		
The two sources that will appear on the paper will be:		
Source A: 21 st century autobiographical writing		
Source B: 19 th century essay		
For section B (the writing section), students will b	be required to write an article .	
	•	
The advanced information for English Language c	an be found here:	
https://filestore.aqa.org.uk/content/summer-2022/AQA-8700-AI-22.PDF		

Subject: English Literature

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content	
N/A	One unit of the course can be dropped. We have	
	selected to drop the unit which we haven't	
	taught to students (the modern play – An	
	Inspector Calls).	
Support materials		
N/A in exams		
2022 Revision Calendar		
https://www.johnofgauntschool.org/attachment	s/download.asp?file=848&type=pdf	
Romeo and Juliet Revision Guide		
https://www.johnofgauntschool.org/attachments/download.asp?file=648&type=pdf		
Unseen Poetry Revision Guide		
https://www.johnofgauntschool.org/attachment	s/download.asp?file=464&type=pdf	
Jekyll and Hyde Revision Guide (not applicable f	or Ms Marshall's class)	
https://www.johnofgauntschool.org/attachment	<u>:s/download.asp?file=466&type=pdf</u>	
Ms Marshall's Revision Website		
https://vmagcseenglish.wordpress.com/		
Advance Information		
No advance information for English Literature		
All details for GCSE English Literature can be found here:		
https://www.aqa.org.uk/subjects/english/gcse/english-literature-8702/changes-for-2022		

Subject: Food Preparation

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content		
NEA1- not to be completed this year The information below is for section 2 – Ion			
NEA2 – from 4 to 3 trials, for the practical exam	answer questions. Any topic from the entir	re	
 – from 3 complex dishes to 2 complex dishes 	specification can be asked for section 1.		
and side dishes.			
Support materials			
N/A in exams			
https://www.foodafactoflife.org.uk/			
https://www.bbc.co.uk/bitesize/subjects/zdn9jh	<u>v</u>		
https://senecalearning.com/en-GB/			
Advance Information			
3.2.3.1 Making informed choices		G	
the current guidelines for a healthy diet			
portion size and costing when meal planning			
now people's nutritional needs change and no	ow to plan a balanced diet for different life		
stages			
how to plan a balanced meal for specific dietary groups			
Now to maintain a healthy body weight throughout life			
• the relationship between diet, nutrition and health			
the relationship between diet, nutrition and health major dist related boalth risks			
• Inajor diet related nearth risks			
• Gelatinisation			
Dextrinisation			
Caramensation 2.4.2.1 Puwing and staring food			
• the food safety principles when buying and st	aring food	9	
• the food safety principles when buying and so		G	
3.4.2.2 Preparing, cooking and serving			
Cooking and serving food			
• To know and understand factors which may influence food choice			
3.6.1.2 Food and the environment			
environmental issues associated with food			
3.6.2.1 Food production			
• Primary and Secondary stages of processing and production			
how processing affects the sensory and nutritional properties of ingredients			
NEA1			
NEA2 – Cardiovascular Health Problems – 50% total GCSE			
All details on advanced information for GCSE Food Preparation can be found here:			

https://filestore.aqa.org.uk/content/summer-2022/AQA-8585-AI-22.PDF

AQA Food Preparation and Nutrition -

Quizlet links

Download the 'Quizlet' app

These links have a number of different revision activities which you can use including flashcards, test, match, learn.

GCSE AQA Food Preparation and Nutrition -<u>https://quizlet.com/gb/547685841/gcse-aqa-food-</u> <u>nutrition-flash-cards/</u> Key terms - <u>https://quizlet.com/gb/186912837/aqa-food-</u> preparation-and-nutrition-key-terms-flash-cards/



Quizlet Flashcards & Homewo

Learn languages and vocabulary

OPEN

Vocabulary - <u>https://quizlet.com/gb/247933076/aqa-food-preparation-and-nutrition-vocabulary-flash-cards/</u>

Diet, nutrition and health

- Macronutrients <u>https://quizlet.com/gb/249073463/macronutrients-flash-cards/</u>
 - Carbohydrates <u>https://quizlet.com/gb/555791548/nutrients-macronutrients-</u> <u>carbohydrates-flash-cards/</u>
 - Protein <u>https://quizlet.com/gb/555778183/nutrients-macronutrients-protein-flash-cards/</u>
 - Fat <u>https://quizlet.com/gb/247932291/aqa-food-preparation-and-nutrition-fat-flash-cards/</u>
- Micronutrients
 - Vitamins <u>https://quizlet.com/gb/249181011/vitamins-flash-cards/</u>
 - o Minerals https://quizlet.com/gb/249224004/minerals-flash-cards/
 - Water <u>https://quizlet.com/gb/640087060/nutrients-micronutrients-water-flash-cards/</u>
 - Minerals <u>https://quizlet.com/gb/640060751/nutrients-micronutrients-minerals-flash-cards/</u>
 - Retaining vitamins and antioxidants -<u>https://quizlet.com/gb/640055970/nutrients-micronutrients-retaining-vitamins-</u> <u>and-antioxidants-flash-cards/</u>
 - Water soluble vitamins <u>https://quizlet.com/gb/640025365/nutrients-</u> <u>micronutrients-water-soluble-vitamins-flash-cards/</u>
 - Fat soluble vitamins <u>https://quizlet.com/gb/640022717/nutrients-</u> micronutrients-fat-soluble-vitamins-flash-cards/
 - DRV https://quizlet.com/gb/249178239/dietary-reference-values-flash-cards/
 - Nutritional requirements through life -<u>https://quizlet.com/gb/268282787/nutritional-requirements-through-life-flash-cards/</u>
 - Energy needs https://quizlet.com/gb/268541415/energy-needs-flash-cards/
 - Energy needs <u>https://quizlet.com/gb/556166781/nutritional-needs-and-health-energy-needs-flash-cards/</u>
 - Diet nutrition and health <u>https://quizlet.com/gb/279738525/diet-nutrition-and-health-flash-cards/</u>
 - Eatwell Guide <u>https://quizlet.com/gb/619994457/eatwell-guide-flash-cards/</u>

Food science

- Cooking of food and heat transfer <u>https://quizlet.com/gb/280073029/cooking-of-food-and-heat-transfer-flash-cards/</u>
- Functional and chemical properties of food -<u>https://quizlet.com/gb/280102839/functional-and-chemical-properties-of-food-flash-cards/</u>
- Functional and chemical properties of food: Carbohydrates <u>https://quizlet.com/gb/556510731/functional-and-chemical-properties-of-food-carbohydrates-flash-cards/</u>
- Functional and chemical properties of food: Protein <u>https://quizlet.com/gb/556505093/functional-and-chemical-properties-of-food-proteins-flash-cards/</u>
- Cooking of food and heat transfer: selecting appropriate cooking methods <u>https://quizlet.com/gb/556207628/cooking-of-food-and-heat-transfer-selecting-appropriate-cooking-methods-flash-cards/</u>
- Cooking of food and heat transfer: Why food is cooked and how heat is transferred to food <u>https://quizlet.com/gb/556199475/cooking-of-food-and-heat-transfer-why-food-is-</u> cooked-and-how-heat-is-transferred-to-food-flash-cards/

Food safety

- Food safety <u>https://quizlet.com/gb/247931692/aqa-food-preparation-and-nutrition-food-safety-flash-cards/</u>
- <u>https://quizlet.com/558928533/aqa-gcse-food-preparation-and-nutrition-food-safety-diagram/#</u>
- Food spoilage and contamination <u>https://quizlet.com/gb/280460076/food-spoilage-and-contamination-flash-cards/</u>
- Buying and storing food <u>https://quizlet.com/gb/631231255/food-preparation-and-nutrition-term-1-food-safety-buying-and-storing-food-flash-cards/</u>
- Preparing cooking and serving food <u>https://quizlet.com/hk/618345330/preparing-cooking-and-serving-food-flash-cards/</u>

Food choice

- Food choice- <u>https://quizlet.com/gb/280715595/food-choice-flash-cards/</u>
- British and international cuisine <u>https://quizlet.com/gb/280871365/british-and-international-cuisines-flash-cards/</u>
- Factors affecting food choice: Food choices
- <u>https://quizlet.com/gb/598335978/factors-affecting-food-choice-food-choices-flash-cards/</u>

Food provenance

- Environmental impact and sustainability: food sources
- <u>https://quizlet.com/gb/604542973/environmental-impact-and-sustainability-food-sources-flash-cards/</u>
- Food provenance <u>https://quizlet.com/gb/280875911/food-provenance-flash-cards/</u>

- Food processing and production <u>https://quizlet.com/gb/280879084/food-processing-and-production-flash-cards/</u>
- Examples of seasonal foods <u>https://quizlet.com/gb/494229055/seasonal-food-flash-cards/</u>
- Carbon footprint <u>https://quizlet.com/645874861/carbon-footprint-flash-cards/</u>

Subject: French

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content
N/A	Writing papers will include an additional optional question for the overlap question at both tiers (Question 4/Question 1) and for Higher tier Question 2.
	This means there will be 3 90-word questions and 3 150-word questions to choose from, rather than 2.
	This is so students can answer on their preferred theme. For each optional question, the theme will be given in the introduction to the question in the question paper.
Support materials	
N/A	
Advance Information	
There is no Advance Information for Paper 1 (Li Therefore all parts of the specification will need Writing Translation.	istening), Paper 2 (Speaking) or Paper 3 (Reading). d to be revised for these papers, as well as for the Paper 4

On Paper 4 – Writing, at Foundation Tier, on the Theme 1 90-word question there will be no bullet point on Customs and Festivals. On the Theme 2 90-word question there will be no bullet point on Global Issues (environment and poverty/homelessness), or on Travel and tourism. On the Theme 3 90-word question there will be no bullet point on Education Post-16.

On Paper 4 – Writing, at Higher Tier, on the Theme 1 150-word question there will be no bullet point on Free Time Activities. On the Theme 2 150-word question there will be no bullet point on Travel and Tourism.

The full Advance Information document for AQA French GCSE can be found here: https://filestore.aqa.org.uk/content/summer-2022/AQA-8658-AI-22.PDF

Subject: Further Maths

Exam board: EDEXCEL

Level of qualification: AQA Level 2 Certificate (FOR SOME STUDENTS IN 11L/MA1)

Changes to coursework	Optional content
N/A	N/A
Support materials	

N/A in exams

The Further Maths Qualification specification, along with sample papers and the formulae sheet, can be found at:

https://www.aqa.org.uk/subjects/mathematics/aqa-certificate/further-mathematics-8365

Topics covered can all be found on the Hegarty Maths website, to which all students have access. Advance Information

The AQA advanced information suggests that the key areas of focus for students' preparation should start with the topics listed below. They do, however, clarify that any of the topics on the syllabus could be examined. Students will be credited with using any relevant knowledge from the syllabus when solving a question.

Paper 1 8365/1 June 2022

Topic	Detail
	Percentage increase
Number	Ratio
	Rationalisation of surd
	1
	Inverse function
	Identity
	Expanding brackets
	Binomial expansion
	Changing subject of formula
	Completing the square
Algobra	Quadratic inequality
Algebra	Draw graph of function
	Simultaneous equations, one linear and one
	second order
	Index laws
	nth term of sequence
	Limiting value of sequence
	Quadratic sequence
	Equation of line
	Length of a line
Coordinate Geometry	Intercept of a line
	Point on circle
	Equation of tangent to a circle
Calculue	Differentiation
Calculus	Stationary points
Matrix Transformations	Matrix multiplication
	Matrix transformations
	Circle theorems
	Circle theorems
	Sinc rule
Commeters	Difference' Theorem
Geometry	Pythagoras' Theorem
	Trigonometrical graph
	Trigonometrical value
	I rigonometrical identity

Торіс	Detail	
	Ratio	
Number	Product rule	
	Inequality	
	Expanding three brackets	
	Factorisation	
	Rational expression simplification	
	Factor theorem	
	Exponential graph recognition	
Algebra	Solving equations	
•	Quadratic equation	
	Three simultaneous equations	
	Quadratic inequality	
	Index laws	
	Algebraic proof	
	Linear sequence	
	Equation of line	
Constituents Constant	Midpoint of line	
Coordinate Geometry	Parallel line	
	Equation of circle	
	Rate of change	
Calculus	Differentiation	
	Gradient of curve	
	·	
Matrix Transformations	Matrix multiplication	
	Cyclic quadrilateral	
	Area of a triangle	
Geometry	Pythagoras' Theorem in 3D	
Geometry	Trigonometry	
	Trigonometry in 3D	
	Trigonometric equation	

Subject: Geography

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content
There is no coursework attached to this course	Please see detail below
Support motorials	

Support materials

The full AQA guidance can be accessed from the link below:

https://www.aqa.org.uk/subjects/geography/gcse/geography-8035/changes-for-2022

Paper 3 pre-release materials will be available from 22 March 2022. We will familiarise students with these resources in class, however students should spend time at home ensuring they are confident with this resource.

Advance Information:

Paper 1: Living with the physical environment

No changes have been made to Paper 1: Living with the physical environment.

Paper 2: Challenges in the human environment

Optionality will be introduced into 8035/2 Paper 2: Challenges in the human environment.

- Students must answer all questions in Section A: Urban issues.
- They will then choose to answer <u>either</u> Section B: The changing economic world <u>or</u> Section C: The challenge of resource management.

The total time allocation for Paper 2 will be reduced from 1 hour 30 minutes to 1 hour 15 minutes.

The total marks for Paper 2 will be reduced from 88 marks to 63 marks (a removal of 25 marks). Sections B and C will now have equal weighting worth 30 marks each.

The highest tariff question in both Section B and C will be 6 marks.

There are 3 spelling, punctuation and grammar (SPaG) marks that will appear in the 9-mark question at the end of Section A.

If students choose to answer Section C the normal rubric will apply, where students must answer question 3 and question 5 water.

Paper 3: Geographical applications.

Because fieldwork is not required, the exam board has removed questions about students' own fieldwork experience (known as 'familiar fieldwork') from the exam.

Question 5, Section B (on familiar fieldwork) will be removed.

There are 3 SPaG marks in question 5 which will be moved to one of the 6-mark questions within Section A (issue evaluation) so that students can still access these marks The total number of marks available for the 8035/3 paper will reduce from 76 to 56 marks (a

removal of 20 marks).

The total time allocation for the 8035/3 paper will reduce from 1 hour 15 minutes to 1 hour. Questions on 'unfamiliar fieldwork' (theoretical understanding of the fieldwork enquiry process) will remain.

8035/3/PM pre-release materials will be available from 22 March 2022.

Subject: History

Exam board: Edexcel

Level of qualification: GCSE

Changes to coursework	Optional content		
N/A	You will sit 3 papers only- all topic areas for		
	these 3 modules are compulsory		
	You will NOT be examined on International		
	Relations		
Support materials			
N/A in exams			
https://gualifications.pearson.com/content/dam	/ndf/GCSE/History/2016/specification-and-		
sample-assessments/gcse-9-1-history-specification	on.pdf		
History specification- you can remind yourself of remember to only look at the 3 options that you	what is on the syllabus using the specification – will be examined on!		
Advance Information			
Paper 1			
Option 10: Crime and punishment in Britain, c10	00–present and		
Whitechapel, c1870-c1900: crime, policing and t	he inner city		
Paper 2			
Option B3: Henry VIII and his ministers, 1509–40			
Demon 2			
Paper 3 Option 22: The USA 1054, 75: conflict at home a	ndahraad		
Option 55. The OSA, 1954–75. connect at nome a			
All details on advanced information for GCSE Hist	cory can be found here:		
	,		
https://www.gov.uk/government/consultations/	proposed-changes-to-the-assessment-of-gcses-		
as-and-a-levels-in-2022			
https://qualifications.pearson.com/en/qualifications/edexcel-gcses/history-2016/summer-2022-			
support.html			
https://qualifications.pearson.com/content/dam/pdf/GCSE/History/2016/Teaching-and-learning-			
materials/gcse-history-summer-2022-assessment-arrangements.pdf			

Subject: Health and Social Care Exam Board: OCR

Level of qualification: Level 1/2

Changes to coursework	Optional content
Component 1 Human Lifespan and Development: Learning Aim A Factors from each of the three categories given in the teaching content must be included with at least one each from the Physical and Social/Cultural	N/A
Component 2 Health and Social Care Services and Values: Require learners to find information on suitable services for one individual with Health and Social Care needs assessing how well the services met their needs.	
Support materials	
N/A	
Advance Information	
N/A	

Subject: Mathematics

Exam board: EDEXCEL

Level of qualification: GCSE

Changes to coursework	Optional content
N/A	N/A
Support materials	

In the exam there you will be given a formula sheet (Links: Foundation, Higher)

All students have individual logins to the Hegarty Maths Website (<u>https://hegartymaths.com/</u>).

The Just Maths website (<u>https://online.justmaths.co.uk/</u>) has a generic login for all students. This is JOGStudent and the password is JOG.

Advance Information:

Below you can find the topics specifically mentioned by the exam board for each paper along with Hegarty clips (to both the lesson and the quiz) and, where possible, links to sets of related questions and/or examples on each topic on Just Maths.

In addition to these topics, the exam board has stated that you may be required to demonstrate knowledge of other content in problem solving situations. This could mean any other topic on the syllabus could come up on the exam

Foundation Tier: Foundation Paper 1

	Topics	Hegarty Clip Number	Just Maths
Arithmetic	Money	743 – 754	Money (MS)
	Negative number	37 – 44	Negative Numbers (MS)
Fractions	Order fractions, decimals, percentages	52, 55, 73 – 76, 82, 83, 149	<u>Order FDP</u> (<u>MS</u>)
	Fraction of an amount	77	Fraction of an Amount (MS)
	Fraction arithmetic	65 – 70, 80	Fraction Arithmetic (MS)
Properties	Place value	13, 45	<u>Place value</u> (<u>MS</u>)
	Product of prime factors	29, 30, 32, 35	Product of Prime Factors (MS)
Standard form	Conversion	122, 123, 124	Conversion (MS)
	Calculation	125, 126, 127	Calculation (MS)
Approximation and Estimation	Estimation	131	https://online.justmaths.co.uk/70- estimation/
Manipulation	Simplification	156 – 159, 173, 174	https://online.justmaths.co.uk/22- expand-simplify/
	Substitute values	155, 278, 780 – 783	

Equations and inequalities	Linear inequality	265 – 272	Linear Inequality (MS)
-	Quadratic equation	230, 234	
Graphs	Quadratic graph	251 – 255	https://online.justmaths.co.uk/33- non-linear-graphs/
Sequences	Linear sequence	196, 197, 198	https://online.justmaths.co.uk/69- sequences/
Conversion	Length	692, 693, 694, 705, 706	
Percentages	Percentage of an amount	84, 85, 86	
	Percentage increase	88, 91, 92, 94, 97, 98	
Ratio	Write as a ratio	328, 329	https://online.justmaths.co.uk/16-
	Share in a ratio	332 – 335	<u>ratio-1/</u>
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742	https://online.justmaths.co.uk/75- direct-proportion/ https://online.justmaths.co.uk/18- proportion-recipes/
Compound Measures	Speed	716 – 724	
	Density	725 – 729, 731	
Shape	Reflection	639, 640, 641	https://online.justmaths.co.uk/64- reflections/
	Plan and elevation	837 – 844	https://online.justmaths.co.uk/54- plans-elevations/
Angles	Angles in a polygon	560 – 565	https://online.justmaths.co.uk/47- interior-exterior-angles/
Length, area, and volume	Volume of a cube	568, 569	https://online.justmaths.co.uk/59- surface-area-volume-1/
	Volume of a cylinder	572, 573, 574	
Pythagoras's Theorem and Trigonometry	Exact trigonometric values	845	Exact trigonometric values (MS) https://online.justmaths.co.uk/39- pythagoras-theorem-1/
Probability	Probability	349 – 363	https://online.justmaths.co.uk/50- probability/
	Frequency tree	368, 369	https://online.justmaths.co.uk/02- frequency-trees/
Diagrams	Pictogram	426	
	Bar chart	425	
	Stem and leaf diagram	430 – 433	

Foundation Paper 2

	Topics	Hegarty Clip Number	Just Maths
Arithmetic	Money	743 – 754	<u>Money</u> (<u>MS</u>)
	Negative number	37 – 44	Negative Numbers (MS)
Fractions	Fraction arithmetic	65 – 70, 80	Fraction Arithmetic (MS)
	Order fractions	60	Order Fractions (MS)

Properties	Order integers	14, 37	Order integers
	Multiples	33	<u>Multiples</u> (<u>MS</u>)
Approximation	Rounding	17, 56, 130, 133	https://online.justmaths.co.uk/09-
and Estimation	Error interval	774 – 777	rounding-error-intervals/
Other	Mathematical symbols	14	
Manipulation	Simplification	156 – 159	
	Expansion of bracket	160, 161	
	Factorisation	168 – 171, 223, 224	
	Laws of indices	173, 174	https://online.justmaths.co.uk/21- index-laws/
Equations and	Linear simultaneous	190 – 195, 218,	https://online.justmaths.co.uk/73-
inequalities	equations	219	simultaneous-equations-1/
Graphs	Coordinates	199, 200	
	Straight line graph	205 – 213	
Functions	Number machines	176, 177	
Conversions	Mass, time, area	695, 696, 697, 700, 701, 705, 706, 709, 710, 711	
	Scale drawing	864 - 871	
Percentages	Decimal to percentage	55	
	Percentage profit	760, 761	
	Depreciation	95	
Ratio	Write as a ratio	328, 329	https://online.justmaths.co.uk/16-
	Use of ratio	335 – 338	ratio-1/
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742	https://online.justmaths.co.uk/07- proportion-best-value/ https://online.justmaths.co.uk/18- proportion-recipes/
	Currency conversion	707, 708	
Shape	Polygons	822 – 828	
	Circles	592	
	Parallel and perpendicular lines	821	
	Transformations	637 – 645, 648 – 654	
Angles	Angles in a triangle	484 - 491	
	Vertically opposite angles	480	
Length, area, and volume	Area of a rectangle	553, 554, 555	
Probability	Tree diagram	361, 362, 363	https://online.justmaths.co.uk/51- probability-trees-1/
	Combined events	358, 359, 360	

Diagrams	Interpret graph	425 - 433, 450 -	
		454	
	Two-way table	422, 423, 424	
	Frequency table	401, 402, 403	
Measures	Mode	404, 415, 419,	https://online.justmaths.co.uk/26-
		420	averages/
	Median	409, 416, 419,	https://online.justmaths.co.uk/27-
		420	averages-from-a-table/
	Mean	405 - 408, 417,	https://online.justmaths.co.uk/28-
		419, 420	averages-from-grouped-data/

Foundation Paper 3

	Topics	Hegarty Clip Number	Just Maths
Arithmetic	Four operations	18 – 24, 47 – 51, 143 – 146	Four Operations (MS)
	Negative number	38 – 44	Negative Numbers (MS)
	Fraction of an amount	77	Fraction of an Amount (MS)
Fractions	One amount as a fraction of another	62	<u>One Amount as a Fraction of</u> <u>Another (MS</u>)
	Equivalent fractions	59, 61	Equivalent fractions (MS)
	Factors	27	Factors (MS)
Properties	Lowest Common Multiple	34, 35, 36	Lowest Common Multiple (MS)
Powers and roots	Square root	101	
Approximation	Rounding	17, 56, 130, 133	
Other	Calculator use	129	Calculator Use (MS)
Manipulation	Simplification	156 – 159, 173, 174	
	Expansion of bracket	160, 161	
	Factorisation	168 – 171, 223, 224	
	Substitute values	155, 278, 780 – 783	
	Change subject of a formula	280 – 287	https://online.justmaths.co.uk/25- subject-of/
	Forming an expression	151, 152, 153	https://online.justmaths.co.uk/21- <u>5-solving-equations/</u>
Equations	Linear equation	177 – 186, 188, 189	
	Form an equation	176	https://online.justmaths.co.uk/21- <u>5-solving-equations/</u>
Sequences	Linear sequence	196, 197, 198	https://online.justmaths.co.uk/69- sequences/
Conversion	Time	709, 710, 711	
	Compound units	724, 731, 737, 738	
	Scale drawings	864 - 871	

Percentages	Percentage to fraction	82	
	One quantity as a percentage of another	62, 76	
	Percentage increase	90, 91, 92, 94, 97, 98	
	Reverse percentage	96	https://online.justmaths.co.uk/13- reverse-percentages/
Ratio	Write as a ratio	328, 329	https://online.justmaths.co.uk/16- ratio-1/
	1 : <i>n</i> form	331	
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742	https://online.justmaths.co.uk/07- proportion-best-value/ https://online.justmaths.co.uk/18- proportion-recipes/
Compound Measures	Average speed	722, 876, 877	
Shape	Triangle properties	823	
	Quadrilaterals	824, 825, 826	
	Triangular prism	829, 830	
Angles	Angle properties of parallel lines	481, 482, 483, 490, 491	https://online.justmaths.co.uk/46- alternate-corresponding-angles/
	Angles in a triangle	484 - 491	
	Vertically opposite angles	480	
	Bearings	492 – 496, 869	https://online.justmaths.co.uk/44- bearings/
Area	Area of a triangle	557, 558	
	Area of a trapezium	559	
Pythagoras's Theorem	Pythagoras's Theorem	498, 499, 501, 502	https://online.justmaths.co.uk/39- pythagoras-theorem-1/
Probability	Probability scale	349, 350	
	Probability	351 – 363	https://online.justmaths.co.uk/50- probability/
Diagrams	Frequency polygon	441	
Measures	Median	409, 416, 419, 420	
	Range	410, 414, 419, 420	
Population	Comparison of distributions	432, 433	

H	Higher Tier: Higher Paper 1			
h		Topics	Clip	Just maths links
			Number	
	Fractions	Fraction of an	77	Fraction of an Amount (MS)
		amount		
		Fraction arithmetic	65 – 70, 80	Fraction Arithmetic (MS)
		Recurring decimal	53, 54	Recurring Decimal to Fraction (MS)
		to fraction		
	Properties	Product of prime	29, 30, 32,	Product of Prime Factors (MS)
		factors	35	
		Negative and	104 – 110	Negative and Fractional Indices (MS)
		fractional indices		
	Powers and roots	Simplification of	113 – 119	Simplification of Surds (MS)
	Standard form	Conversion	122 122-	Conversion (MS)
	Standard Torm	conversion	122, 123	
		Calculation	125, 126,	Calculation (MS)
			127	
	Manipulation	Simplification	156 – 159,	
			173 - 175	
		Expansion of	160 – 166	
		brackets		
		Algebraic fractions	159, 170,	
			172, 229	
	Equations and	Linear inequality	265 – 272	https://online.justmaths.co.uk/05-
	inequalities		170	<u>inequalities/</u>
_		Form an equation	1/0	
		Quadratic	230 - 234, 238 - 242	
		equation	238 = 242, 244, 245	
		Equation of a	320	
		tangent to a circle	520	
	Graphs	Quadratic graph	251 – 257,	https://online.justmaths.co.uk/33
			260	- non-linear-graphs/
		Speed-time graph	880 - 886	
		Gradients of	214, 215	
		parallel and		
		perpendicular lines		
		Gradient of a curve	887 – 890	
	Percentages	Percentage of an	84, 85, 86	
		amount		
	Ratio	Write as a ratio	328, 329	https://online.justmaths.co.uk/16
		Use of ratio	335 - 338	<u>- ratio-1/</u>
		Share in a ratio	332 – 335	
		Ratio to fraction	330	

Proportion	Equations of	343 – 347	https://online.justmaths.co.uk/75-
	proportion		direct-proportion/
Compound	Density	725 – 733	
Measures			
Angles	Angles in a	560 – 565	https://online.justmaths.co.uk/47-
	polygon		interior-exterior-angles/
Length, area and	Area of a triangle	557, 558	
volume	Volume of a cube	568, 569,	https://online.justmaths.co.uk/59-
		583	surface-area-volume-1/
	Surface area of a	584, 589,	
	cuboid	590	
	Area of a sector	546, 547	https://online.justmaths.co.uk/58-
			arcs-sectors/
Pythagoras's	Pythagoras's	497 – 507	https://online.justmaths.co.uk/39-
Theorem and	Theorem		pythagoras-theorem-1/
Trigonometry			
	Exact	845	Exact trigonometric values (MS)
	trigonometric		
	values		
Vectors	Vector geometry	628 - 636	https://online.justmaths.co.uk/68-
			vectors/
Probability	Probability	351 – 359	https://online.justmaths.co.uk/50-
			probability/
	Independent	360 - 363	https://online.justmaths.co.uk/51-
	combined events		probability-trees-1/
Diagrams	Cumulative	437 – 440	
	frequency graph		
Measures	Mean	405 – 408,	
		417 – 421	
	Inter-quartile	412	
	range		
Higher Paper 2	1		
	Topics	Clip Number	Just maths links
Approximation	Error interval	774 – 777	
and estimation			
Other	Use of a calculator	129	
Manipulation	Simplification	156 – 159	
	Expansion of	160, 161	
	bracket		
	Factorisation	168 – 171,	
		<u>22</u> 3 – 228	
	Laws of indices	173,	https://online.justmaths.co.uk/21-
		174,175	index-laws/

	Equations and	Linear equation	177 – 189		
	inequalities	Equations of parallel	214		
		lines			
		Form an equation	176		
		Quadratic inequality	277		
	Graphs	Coordinates	199, 200		
		Transformations of function	307 – 313		
		Graphs of	303 - 306		
		trigonometric functions	000 000		
H	Functions	Inverse and composite	293 – 297		
		functions			
	Conversions	Area	700, 701		
	Percentages	Depreciation	95, 808 – 811		
	Ratio	Use of ratio	335 – 338	https://online.justmaths.co.uk/16-	
				ratio-1/	
				https://online justmaths.co.uk/17-	
-				ratio-2/	
H	Proportion	Direct proportion	339 - 341	https://online.justmaths.co.uk/75-	
-		Billeer proportion	343 - 345	direct-proportion/	
			348, 739 -	<u></u>	
			742		
		Currency conversion	707, 708		
		Inverse proportion	342, 346 –		
			347, 348		
	Compound	Pressure	734 – 737		
	Measures				<u> </u>
	Shape	Transformations	637 – 657		
1 6	Angles	Circle theorems	593 – 606,		1
	0		016 020		
	Longth area and	Area of a restangle	816 - 820		
	Length, area and	Area of a rectangle	816 - 820 554, 555		
	Length, area and volumes	Area of a rectangle Volume of composite	816 - 820 554, 555 582	https://online.justmaths.co.uk/59-	
_	Length, area and volumes	Area of a rectangle Volume of composite solid	816 - 820 554, 555 582	https://online.justmaths.co.uk/59- surface-area-volume-1/	
	Length, area and volumes	Area of a rectangle Volume of composite solid	816 - 820 554, 555 582	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60-	
	Length, area and volumes	Area of a rectangle Volume of composite solid	816 - 820 554, 555 582	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/	
	Length, area and volumes	Area of a rectangle Volume of composite solid Sine and Cosine Rules	816 - 820 554, 555 582 521 - 533	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45-	
	Length, area and volumes Pythagoras's Theorem and Trigonometry	Area of a rectangle Volume of composite solid Sine and Cosine Rules	816 - 820 554, 555 582 521 - 533	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Prohability	Area of a rectangle Volume of composite solid Sine and Cosine Rules	816 - 820 554, 555 582 521 - 533	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram	816 - 820 554, 555 582 521 - 533 372 - 380	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/ https://online.justmaths.co.uk/53- venn-diagrams/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/ https://online.justmaths.co.uk/53- venn-diagrams/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/53-venn-diagrams/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434 435	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/ https://online.justmaths.co.uk/53- venn-diagrams/ https://online.justmaths.co.uk/50- probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440	https://online.justmaths.co.uk/59- surface-area-volume-1/ https://online.justmaths.co.uk/60- surface-area-volume-2/ https://online.justmaths.co.uk/45- pythagoras-with-trig/ https://online.justmaths.co.uk/53- venn-diagrams/ https://online.justmaths.co.uk/50- probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams Measures	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot Lower and	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440 411	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/50-probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams Measures	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot Lower and upper quartiles	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440 411	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/50-probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams Measures Populations	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot Lower and upper quartiles Compare distributions	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440 411 432, 433,	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/50-probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams Measures Populations	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot Lower and upper quartiles Compare distributions	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440 411 432, 433, 436, 439	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/50-probability/	
	Length, area and volumes Pythagoras's Theorem and Trigonometry Probability Diagrams Measures Populations	Area of a rectangle Volume of composite solid Sine and Cosine Rules Venn diagram Probability from a Venn diagram Box plot Lower and upper quartiles Compare distributions	816 - 820 554, 555 582 521 - 533 372 - 380 383 - 388, 391 434, 435, 436, 440 411 432, 433, 436, 439 872, 873	https://online.justmaths.co.uk/59-surface-area-volume-1/ https://online.justmaths.co.uk/60-surface-area-volume-2/ https://online.justmaths.co.uk/45-pythagoras-with-trig/ https://online.justmaths.co.uk/53-venn-diagrams/ https://online.justmaths.co.uk/50-probability/	

Higher Paper 3

	Topics	Clip Number	Just maths links
Arithmetic	Negative number	38 - 44	
Properties	Laws of indices	102 – 110	https://online.justmaths.co.uk/21-
			index-laws/
Approximation	Bounds	137, 138, 139	
and estimation			
Other	Product rule for	671, 672, 673	
	counting		
Manipulation	Simplification	156 – 159,	https://online.justmaths.co.uk/22-
		173, 174, 175	expand-simplify/
	Expansion of bracket		
	Substitute values	278, 279, 780	
	Difference of two	165 224 225	
	squares	100, 22 1, 220	
	Expansion of brackets	160 – 166	https://online.justmaths.co.uk/22-
	F		expand-simplify/
	Change subject of a	280 - 287	https://online.justmaths.co.uk/25-
	formula		subject-of/
	Forming an expression	151, 152, 153	https://online.justmaths.co.uk/21-
			5-solving-equations/
		150, 170	
	Algebraic fractions	159, 170,	
		172, 229	
Equations and	Set up and	188	https://online.justmaths.co.uk/21-
inequalities	solve equation		5-solving-equations/
			https://online.justmaths.co.uk/21-
			5-solving-equations/
	Simultaneous	190 - 195	https://online justmaths.co.uk/73-
	equations	218	simultaneous-equations-1/
	linear/guadrati	219, 246, 259	<u>Simulancous equations 17</u>
	C	, ,	https://online.justmaths.co.uk/74-
			simultaneous-equations-2/
Graphs	Gradient of a	201 – 204,	https://online.justmaths.co.uk/34-
	straight- line graph	207, 210	<u>coordinate-geometry-1/</u>
Conversions	Time	709, 710, 711	
Dorcontagos	Dercentage decrease	00 01 02 07	
reitenlages	reitenlage uetledse	50, 31, 32, 37	
	Depreciation	95, 808 – 811	
	Reverse percentage	96	https://online.iustmaths.co.uk/13-
			reverse-percentages/

Ratio	Write as a ratio	328, 329	https://online.justmaths.co.uk/16-
			<u>ratio-1/</u>
			https://online.justmaths.co.uk/17-
			ratio-2/
	1 : <i>n</i> form	331	
	Share in a ratio	332 – 335	https://online.justmaths.co.uk/16-
			<u>ratio-1/</u>
Proportion	Direct proportion	339 - 341	https://online.justmaths.co.uk/75-
		34 - 345, 348,	direct-proportion/
		739 –742	
Compound	Average speed	716 – 724,	
Measures		876, 877	
Growth and	General iterative	322	
decay	processes		
Angles	Circle theorems	593 – 606,	
		816 - 820	
	Area of a trapezium	559	
Length, area	Similar triangles	611, 612, 613	https://online.justmaths.co.uk/62-
and volume			<u>similar-shapes/</u>
Pythagoras's	Pythagoras's Theorem	497 – 507	https://online.justmaths.co.uk/39-
Theorem and			pythagoras-theorem-1/
Trigonometry			
	Trigonometry	508 - 515	
	Trigonometry in 3-D	854 - 863	
Vectors	Column vectors	623 - 627	https://online.justmaths.co.uk/68-
			vectors/
Probability	Dependent combined	364 - 367	https://online.justmaths.co.uk/52-
	events		probability-trees-2/
Diagrams	Frequency polygon	441	
	Histogram	442 - 449	

Subject: Media Studies

Exam board: AQA

Level of qualification: GCSE	
Changes to NEA	Optional content
 As well as accepting the submission of final products, AQA will also accept submission of prototypes/mock-ups with supporting evidence. AQA have removed the current restriction on the use of non-original images, as these could form part of a valid supporting evidence of submissions. The briefs have been amended to give you additional guidance on prototypes/mock-ups, and the required supporting evidence. More information can be found here: https://www.aqa.org.uk/subjects/media-studies-8572 	N/A
Support materials:	
N/A in exams	
Advance Information	
I his advance information covers all examined cor	nponents.
• For each paper the list shows the media forms/	ciose study products (LSPS) assessed.
• Assessment of unseen products will still occur.	, , ,
 Assessment of all four areas of the theoretical f 	ramework and contexts will still occur in both
papers	
Some content has been removed. You will now be	e assessed on the following CSPs only:
Media One:	
Section A	
Magazine – Tatler	
Advertising and Marketing – Galaxy	
Section B	
OSP/Video Games – Lara Croft Go	
Music Video – One Direction and Arctic Monkeys	
Media Two	
Section A	
All Television – Class (screened extract) and Dr W	ho
Section B	-
All Newspapers – Daily Mirror and The Times	

Subject: GCSE Music

Exam board: Eduqas

Level of qualification:

Changes to coursework	Optional content
Component 1 Derforming	N/A
Component I – Performing:	N/A
minute 20 seconds	
minute 30 seconds	
Component 2 Composing	
Component 2 – Composing.	
minimum of 2 minutes	
Initial of 2 minutes	
Support materials	
N/Δ in exams	
Africa Revision notes: https://resource.download	wiec.co.uk/vtc/2019-20/WIEC19-20_1-
10/pdf/edugas-toto-africa-notes-update-08-20.p	df
	<u></u>
Badinerie Revision notes: https://resource.down	oad.wiec.co.uk/vtc/2019-20/WJEC19-20 1-
9/pdf/edugas-bach-badinerie-notes.pdf	
Advance Information	
Component 3 – Listening and Appraising Exam:	
The extracts will focus on the following genres/st	yles within each area of study:
Prepared extracts - Set works questions will focus	<u>s on</u> :
Section B of the Badinerie	
 The second verse and chorus of Africa_ 	
Unprepared extracts will be in the following genr	<u>es:</u>
Romantic music	
Vocal ensembles	
• Film music	
• Рор	
The extended response (10 mark question) will b	e in Area of Study 3, Music for Film
The dictation question will require candidates to	notate pitch only.
All details on the advanced information for GCSE	Music can be found here:
https://www.edugas.co.uk/umbraco/surface/blo	bstorage/download?nodeId=39549

Subject: Photography

Exam board: Edexcel

Level of qualification: GCSE

Changes to coursework	Optional content	
Students only complete one main portfolio. This	Students can also include the first course work	
includes a sketchbook of work and a final piece.	project Force from year 10 as extra work	
The main theme for this project has been		
Fragments.		
Support materials		
N/A but the timeline is:		
• Friday 1 st April – Sketchbook deadline –	books handed in C1 by 2pm	
• WB 4 th April - students start final piece		
• 9 th April- 24 th April Easterholiday		
• WB 25 th April students working on final	piece	
 Tuesday 3rd May - art/nhoto Exam (this is an inset day) students need to be in by 		
830am	s an inset day, stadents need to be in by	
 Eriday 12th May final piece deadline hand in by 2pm 		
 Friday 13 Way - final piece deadline, fiand in by 2pth Friday 27th May. Final band in and of activities 		
Filday 27 ^{ab} Way - Fillal Italiu III – eliu Of	course	
N/A		
Some further useful info		
Some further userul into		
https://qualifications pearson com/en/qualificatio	ins/edexcel-gcses/art-and-design-	
2016/summer-2022-support html	his excer sever and design	
https://gualifications.pearson.com/content/dam/	pdf/GCSE/Art%20and%20Design/2016/teaching	
-and-learning-materials/gcse-art-and-design-2022	-faqs.pdf	

Subject: Physics - Triple

Exam board: AQA

Major focus

Could be in

Not assessed

G

А

R

Level of qualification: GCSE

Changes to coursework	Optional content
N/A	N/A

Support materials

Students will have access to a revised equation sheet which will cover all of the physics equations required in the subject content. This can be found here:

https://filestore.aqa.org.uk/resources/physics/AQA-8463-ES-INS.PDF

All details on advanced information for GCSE Physics can be found here: https://filestore.aqa.org.uk/content/summer-2022/AQA-8463-AI-22.PDF

Advance Information

GCSE Physics

Paper 1

Spec points	н	F
4.1.1 Energy changes in a systems, and the ways energy is stored before and after	G	G
such changes		
4.1.2 Conservation and dissipation of energy	G	G
4.1.3 National and global energy resources	А	А
4.2.1 Current, potential difference and resistance	R	G
4.2.2 Series and parallel circuits	R	А
4.2.3 Domestic uses and safety	R	R
4.2.4 Energy transfers	G	А
4.2.5 Static electricity	А	G
4.3.1 Changes of state and particle model	G	G
4.3.2 Internal energy and energy transfers	G	G
4.3.3 Particle model and pressure	R	R
4.4.1 Atoms and isotopes	R	R
4.4.2 Atoms and nuclear radiation	A	G
4.4.3 Hazards and used of radioactive emissions and of background radiation	R	A
4.4.4 Nuclear fission and fusion	R	R

Required practical's that will be assessed in H and F:

Required practical 2: effectiveness of thermal insulators and factors that may affect the thermal insulation properties of a material

Required practical 5: Determining the densities of regular and irregular solid objects and liquids

Physics paper 2

Spec points	н	F
4.5.1 Forces and their interactions	G	G
4.5.2 Work done and energy transfers	G	G
4.5.3 Forces and elasticity	G	А
4.5.4 Moments, levers and gears	R	R
4.5.5 Pressure and pressure differences in fluids	G	А
4.5.6.1 Describing motion along a line	G	G
4.5.6.2 Forces, accelerations and Newton's Laws of motion	А	R
4.5.6.3 Forces and braking	А	R
4.5.7 Momentum	G	А
4.6.1 Waves in air, fluids and solids	G	G
4.6.2 Electromagnetic waves	R	G
4.6.3 Black body radiation	R	R
4.7.1 Permanent and induced magnetism, magnetic forces and fields	R	А
4.7.2 The motor effect	А	Α
4.7.3 Induced potential, transformers and the National Grid	A	A
4.8.1 Solar system; stability of orbital motions; satellites	G	G
4.8.2 Red-Shift	G	R

Required practical that will be assessed in H and F:

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

Subject: Religious Studies

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content	
N/A	N/A	
Support materials		
N/A in exam		
Support materials and guidance have been given teacher directly if they need further signposting.	to the group. Year 11 can contact their class	
Advance Information		
The exam board have given further guidance in terms of the two exam papers. When looking through the guidance, year eleven should be mindful that the two religions of study are Christianity and Islam (not the other religions included in the text). AQA have been a little more explicit in terms of the religious beliefs and practices that are needed for the exam. In terms of paper two (the themes paper), there have been no changes.		
All details on advanced information for religious	studies can be found here:	

https://filestore.aqa.org.uk/content/summer-2022/AQA-8062-AI-22.PDF

Subject: Combined Science

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content		
N/A	N/A		
Current meterials			
Support materials	and here as		
Advanced information for GCSE Combined Science can be for	und here:		
https://filestore.aqa.org.uk/content/summer-2022/AQA-846	04-AI-22.PDF		
Students will have access to a revised equation sheet which v	vill cover all of the physics equi	ations requir	ed in the
subject content. This can be found here: <u>https://filestore.aqa</u>	.org.uk/resources/physics/AQA	<u> 4-8463-ES-IN</u>	<u>S.PDF</u>
Advance Information			
Majorfogus			
Major locus G			
Not assessed R			
Biology Paper 1			
Spec points		н	F
4.1. CELL BIOLOGY			
4 1 1 CELL STRUCTURE			
4 1 1 1 Eukarvotes & Prokarvotes		Δ	Δ
A 1 1 2 Animal & Plant Cells		Δ	Δ
A 1 1 3 Cell Specialisation		<u> </u>	<u> </u>
4.1.1.5 Cell Differentiation			<u> </u>
4.1.1.4 Cell Differentiation		A	A
		ĸ	A
		C	C
		G	G
4.1.2.2 Mitosis and the Cell Cycles		G	G
4.1.2.3 Stem Cells		G	G
4.1.3 TRANSPORT IN CELLS		_	
4.1.3.1 Diffusion		R	A
4.1.3.2 Osmosis		R	R
4.1.3.3 Active Transport		R	R
4.2 ORGANISATION			
4.2.1 PRINCIPLES OF ORGANISATION		А	A
4.2.2 ANIMAL TISSUES, ORGANS & ORGAN SYSTEMS			
4.2.2.1 The Human Digestive System		G	G
4.2.2.2 The Heart & Blood Vessels		G	G
4.2.2.3 Blood		G	G
4.2.2.4 Coronary heart Disease: a non-communicable dise	ease	G	R
4.2.2.5 Health Issues		G	G
4.2.2.6 The effect of Lifestyle on some non communicable	e diseases	G	G
4.2.2.7 Cancer		G	G
4.2.3 PLANT TISSUES ORGANS & SYSTEMS			
4.2.3.1 Plant Tissues		R	А
4 2 3 2 Plant Organ Systems		R	Δ
		I V	

4.3.1.1 Communicable (infectious) Diseases		А	G
4.3.1.2 Viral Diseases		R	G
4.3.1.3 Bacterial Diseases		А	G
4.3.1.4 Fungal Diseases		R	G
4.3.1.5 Protist Diseases		R	G
4.3.1.6 Human Defence Systems		R	G
4.3.1.7 Vaccinations		A	G
4.3.1.8 Antibiotics & Painkillers		A	G
4.3.1.9 Discovery and development of drugs		A	G
4.4 BIOENERGETICS			
4.4.1 PHOTOSYNTHESIS		-	-
4.4.1.1. Photosynthetic Reaction		G	G
4.4.1.2 Rate of Photosynthesis		G	G
4.4.1.3 Uses of Glucose from Photosynthesis		ĸ	К
4.4.2 RESPIRATION		•	_
4.4.2.1 Aerobic & Anaerobic Respiration		A	ĸ
4.4.2.2 Response to Exercise		K	K
4.4.2.3 Metabolism		A	ĸ
Required practical's that will be assessed in F	Required practical's that will be	assessed in	н·
Required practical activity 1, 3, 5	Required practical activity 3, 4, 5		
Paper 2 Biology			
			E
Spec points		н	F
Spec points		н	F
Spec points 4.5 HOMEOSTATSIS & RESPONSE 4.5 1 HOMEOSTASIS		А	Δ
spec points 4.5 HOMEOSTATSIS & RESPONSE 4.5.1 HOMEOSTASIS 4 5 2 THE HUMAN NERVOUS SYSTEM		A	A
Spec points 4.5 HOMEOSTATSIS & RESPONSE 4.5.1 HOMEOSTASIS 4.5.2 THE HUMAN NERVOUS SYSTEM 4.5.3 HORMONAL COORDINATION IN HUMANS		A R	A R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System		H A R G	R G
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration		H A R G G	A R G G
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction		H A R G G G	F A R G G R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception		H A R G G G G R	R G R G R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O	nly)	H A R G G G G R G	F A R G G G R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)	nly)	H A R G G G G R G G G	F A R G G G R R R R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION		H A R G G G C R G G G	A R G G G R R R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION	nly)	H A R G G G R G G G	A R G G R R R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction	only)	H A R G G G R G G G C R	A R G G G R R R R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis	only)	H A R G G G R G G G C C C C C C C C C C C C	F A R G G G G R R R R R R R R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.3 DNA & Genome		H A R G G G G G G G G C C C C C C C C C C C	R R R R R R R R R R R R R R C
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.4 Genetic Inheritance	inly)	H A R G G G G G G G G C C C C C C C C C C C	A R G G G R R R R R R R R R R C G G
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.2 Meiosis4.6.1.3 DNA & Genome4.6.1.5 Inherited Disorders	nly)	H A R G G G G G G G C C C C C C C C C C C C	A R G G G R R R R R R R R R R R R C G G G G
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.3 DNA & Genome4.6.1.4 Genetic Inheritance4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination	Duly)	H A R G G G G G G G G G C C C C C C C C C C	A A R G R R R R G G R G R G G R G G G G G R <td< td=""></td<>
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.3 DNA & Genome4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination4.6.2 VARIATION AND EVOLUTION	only)	H A R G G G G C C C C C C C C C C C C C C C	A A R G R R R R G R G R R G R <td< td=""></td<>
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.3 DNA & Genome4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination4.6.2 VARIATION AND EVOLUTION4.6.2.1 Variation	Pnlγ)	H A R G G G G G G G G G C C C C C C C C C C	A A R G R R R R G R G R R G R <td< td=""></td<>
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.2 Meiosis4.6.1.3 DNA & Genome4.6.1.4 Genetic Inheritance4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination4.6.2 VARIATION AND EVOLUTION4.6.2.1 Variation4.6.2.2 Evolution	Duly)	H A R G G G G G G G G G C C C C C C C C C C	A A R G G R R R G R G R R G R R R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.4 Genetic Inheritance4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination4.6.2 VARIATION AND EVOLUTION4.6.2.1 Variation4.6.2.2 Evolution4.6.2.3 Selective Breeding	only)	H A R G G G G G G G C C C C C C C C C C C C	A A R G R R R Q R Q R Q R Q R Q R Q R Q R Q R Q R
Spec points4.5 HOMEOSTATSIS & RESPONSE4.5.1 HOMEOSTASIS4.5.2 THE HUMAN NERVOUS SYSTEM4.5.3 HORMONAL COORDINATION IN HUMANS4.5.3.1 Human Endocrine System4.5.3.2 Control of blood glucose concentration4.5.3.3 Hormones in human reproduction4.5.3.4 Contraception4.5.3.5 The use of Hormones to treat infertility (HT O4.5.3.6 Feedback system (HT Only)4.6 INHERITANCE, VARIATION & EVOLUTION4.6.1 REPRODUCTION4.6.1.1 Sexual & Asexual reproduction4.6.1.2 Meiosis4.6.1.4 Genetic Inheritance4.6.1.5 Inherited Disorders4.6.1.6 Sex Determination4.6.2.1 Variation4.6.2.2 Evolution4.6.2.3 Selective Breeding4.6.2.4 Genetic Engineering	Duly)	H A R G G G G G G G G G G G C C C C C C C C	F A R R G G R R R R R R C G G G G G G G G C G C

4.6.3.1 Evidence for Evolution	R	А
4.6.3.2 Fossils	R	А
4.6.3.3 Extinction	R	R
4.6.3.4 Resistant Bacteria	R	R
4.6.4 CLASSIFICATION OF LIVING ORGANISMS	A	А
4.7 ECOLOGY		
4.7.1 ADAPTATION, INTERDEPENDENCE & COMPETITION		
4.7.1.1 Communities	А	G
4.7.1.2 Abiotic Factors	A	G
4.7.1.3 Biotic Factors	А	G
4.7.1.4 Adaptations	R	R
4.7.2 ORGANISATION OF AN ECOSYSTEM		
4.7.2.1 Levels of Organisation	G	G
4.7.2.2 How materials are cycled	G	G
4.7.3 BIODIVERSITY & EFFECT OF HUMAN INTERACTION ON ECOSYSTEMS		
4.7.3.1 Biodiversity	G	R
4.7.3.2 Waste Management	G	А
4.7.3.3 Land Use	R	R
4.7.3.4 Deforestation	R	R
4.7.3.5 Global warming	G	R
4.7.3.6 Maintaining Biodiversity	G	R

Required practical that will be assessed in F & H:

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

Chemistry Paper 1

Spec points	Н	F	
5.1 ATOMIC STRUCTURE & PERIODIC TABLE			
5.1.1 A SIMPLE MODEL OF ATOM, SYMBOLS & RELATIVE ATOMIC MASS			
5.1.1.1 Atoms, Elements and Compounds	А	А	
5.1.1.2 Mixtures	А	А	
5.1.1.3 The Development of the Model of the Atom	А	А	
5.1.1.4 Relative electrical Charge of subatomic particles	А	А	
5.1.1.5 Size & Mass of atoms	А	А	
5.1.1.6 Relative Atomic Mass	А	A	
5.1.1.7 Electronic Structure	А	А	
5.1.2 THE PERIODIC TABLE			
5.1.2.1 The Periodic Table	А	G	
5.1.2.2 Development of the Periodic Table	А	G	
5.1.2.3 Metals & Non- Metals	А	G	
5.1.2.4 Group 0	А	G	
5.1.2.5 Group 1	А	G	
5.1.2.6 Group 7	А	G	
5.2 BONDING, STRUCTURE & THE PROPERTIES OF MATTER			
5.2.1 CHEMICAL BONDS, IONIC, COVALENT & METALLIC			
5.2.1.1 Chemical Bonds	A	A	
5.2.1.2 Ionic Bonds	A	A	

5.2.1.3 Ionic Compounds	А	А
5.2.1.4 Covalent Bonding	А	А
5.2.1.5 Metallic Bonding	А	А
5.2.2 HOW BONDING % STRCUTURE ARE RELATED TO PROPERTIES OF SUBSTANCES		
5.2.2.1 The three states of Matter	G	G
5.2.2.2 State Symbols	G	G
5.2.2.3 Properties of Ionic Compounds	G	G
5.2.2.4 Properties of small Molecules	G	G
5.2.2.5 Polymers	G	G
5.2.2.6 Giant Covalent Structures	G	G
5.2.2.7 Properties of metals & Alloys	G	G
5.2.2.8 Metals as conductors	G	G
5.2.3 STRUCTURE & BONDING OF CARBON		
5.2.3.1 Diamond	А	G
5.2.3.2. Graphite	А	G
5.2.3.3 Graphene & Fullerenes	А	G
5.3 QUANTITATIVE CHEMISTRY		
5.3.1 CHEMICAL MEASUREMENTS, CONSERVATION OF MASS & THE QUANTITATIVE INTER	RPRETATION	
5.3.1.1 Conservation of mass & Balanced chemical equations	А	А
5.3.2.2 Relative Formula Mass	А	А
5.3.1.3 Mass Changes when a reactant or product is a gas	А	А
5.3.1.4 Chemical Measurements	А	А
5.3.2 USE OF AMOUNT OF SUBSTANCE IN RELATION TO MASS OF PURE SUBSTANCES		
5.3.2.1 Moles (HT Only)	G	R
5.3.2.2 Amount of substance equations (HT Only)	G	R
5.3.2.3 Using Moles to balance equations (HT Only)	G	R
5.3.2.4 Limiting reactants (HT Only)	G	R
5.3.2.5 Concentrations of Solutions	G	R
5.4 CHEMICAL CHANGES		
5.4.1 REACTIVITY OF METALS		
5.4.1.1 Metal Oxides	G	G
5.4.1.2 The Reactivity series	G	G
5.4.1.3 Extraction of metals & reduction	G	G
5.4.1.4 Oxidation & Reduction in terms of electrons (HT Only)	G	R
5.4.2 REACTIONS OF ACIDS		
5.4.2.1 Reactions of Acids with Metals	G	G
5.4.2.2 Neutralisation of acids and Salt Production	G	G
5.4.2.3 Soluble Salts	G	G
5.4.2.4 The pH Scale & Neutralisation	G	G
5.4.2.4 Strong & Weak acids (HT Only)	G	R
5.4.3 ELECTROLYSIS		
5.4.3.1 The process of Electrolysis	G	G
5.4.3.2 Electrolysis or Molten Ionic Compounds	G	G
5.4.3.3 Using Electrolysis to extract Metals	G	G
5.4.3.4 Electrolysis of Aqueous Solutions	G	G
5.5 ENERGY CHANGES		
5.5.1 EXOTHERMIC & ENDOTHERMIC REACTIONS		
5.5.1.1 Energy Transfer during Exo & Endothermic Reactions	G	А
5.5.1.2 Reaction Profiles	G	А
5.5.1.3 The energy change of reactions (HT Only)	G	R

Required practical's that will be assessed in F & H:

<u>Required practical activity 8</u>: 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.

<u>Required practical activity 9:</u> investigate what happens when aqueous solutions are electrolysed using inert electrodes. This should be an investigation involving developing a hypothesis.

<u>Required practical activity 10</u>: investigate the variables that affect temperature changes in reacting solutions such as, eg, acid plus metals, acid plus carbonates, neutralisations, displacement of metals

Paper 2 Chemistry

Spec points	н	F
5.6 THE RATE & EXTENT OF CHEMICAL CHANGE		
5.6.1 RATE OF REACTION		
5.6.1.1 Calculation rates of Reactions	G	G
5.6.1.2 Factors which affect the rates of chemical reactions	G	G
5.6.1.3 Collision Theory & Activation Energy	G	G
5.6.1.4 Catalysts	G	G
5.6.2 REVERSIBLE REACTIONS & DYNAMIC EQUILIBRIUM		
5.6.2.1 Reversible Reactions	G	G
5.6.2.2 Energy changes & Reversible reactions	G	G
5.6.2.3 Equilibrium	G	G
5.6.2.4 The effect of changing condition on equilibrium (HT only)	G	R
5.6.2.5 The effect of changing concentrations (HT Only)	G	R
5.6.2.6 The effect of Temperature changes on Equilibrium (HT Only)	G	R
5.6.2.7 The effect of pressure changes on equilibrium (HT Only)	G	R
5.7 ORGANIS CHEMISTRY		
5.7.1 CARBON COMPOUNDS AS FUELS & FEEDSTOCK		
5.7.1.1 Crude oil, Hydrocarbons and alkanes	G	G
5.7.1.2 Fractional Distillation and Petrochemicals	G	G
5.7.1.3 Properties of hydrocarbons	G	G
5.7.1.4 Cracking & Akenes	G	G
5.8 CHEMICAL ANALYSIS		
5.8.1 PURITY, FORMULATION & CHROMATOGRAPHY		
5.8.1.1 Pure substances	G	G
5.8.1.2 Formulations	G	G
5.8.8.1.3 Chromatography	G	G
5.8.2 IDENTIFATION OF COMMON GASES		
5.8.2.1 Test for Hydrogen	R	А
5.8.2.2 Test for Oxygen	R	А
5.8.2.3 Test for Carbon Dioxide	R	А
5.8.2.4 Test for Chlorine	R	А
5.9 CHMISTRY OF THE ATMOSPHERE		
5.9.1 THE COMPOSITION & EVOLUTION OF THE EARTH'S ATMOSPHERE		
5.9.1.1 The Proportions of different gases in the atmosphere	G	G
5.9.1.2 The Earths Early Atmosphere	G	G
5.9.1.3 How Oxygen increased	G	G
5.9.1.4 How Carbon Dioxide Decreased	G	G
5.9.2 CARBON DIOXIDE & METHANE AS GREENHOUSE GASES		

5.9.2.1 Greenhouse Gases	А	R
5.9.2.2 Human Activities which contribute to greenhouse gases in atmosphere	А	R
5.9.2.3 Global Climate Change	А	R
5.9.2.4 The carbon footprint and its reduction	А	R
5.9.3 COMMON ATMOSPHERIC POLLUTANTS& THEIR SOURCES		
5.9.3.1 Atmospheric pollutants from fuels	А	G
5.9.3.2 Properties & Effects of atmospheric pollutants	А	G
5.10 USING RESOURCES		
5.10.1 USING THE EARTH'S RESOURCES & OBTAINING POTABLE WATER		
5.10.1.1 Using the Earths resources & sustainable development	G	G
5.10.1.2 Potable water	G	G
5.10.1.3 Waste Water treatment	G	G
5.10.1.4 Alternative methods of extracting metals (HT Only)	G	R
5.10.2 LIFE CYCLE ASSESSMENT & RECYCLING		
5.10.2.1 Life cycle assessment	А	А
5.10.2.2 Ways of reducing the use of resources	А	A

Required practical that will be assessed in F & H:

<u>Required practical activity 11:</u> 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.

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

Physics Paper 1

Spec points	Н	F
6.1 ENERGY		
6.1.1 ENERGY CHANGES IN A SYSTEM, AND THE WAYS ENERGY IS STORED BEFORE AND A	FTER SUCH C	HANGES
6.1.1.1 Energy stores and systems	G	G
6.1.1.2 Changes in energy	G	G
6.1.1.3 Energy changes in systems	G	G
6.1.1.4 Power	G	G
6.1.2 CONSERVATION AND DISSIPATION OF ENERGY		
6.1.2.1 Energy transfers in a system	А	А
6.1.2.2 Efficiency	А	А
6.1.3 NATIONAL AND GLOBAL ENERGY RESOURCES	А	G
6.2 ELECTRICITY		
6.2.1 CURRENT, POTENTIAL DIFFERENCE AND RESISTANCE		
6.2.1.1 Standard circuit diagram symbols	А	G
6.2.1.2 Electrical charge and current	А	G
6.2.1.3 Current, resistance and potential difference	А	G
6.2.1.4 Resistors	А	G
6.2.2 SERIES AND PARALLEL CIRCUITS	R	А
6.2.3 DOMESTIC USES AND SAFETY		
6.2.3.1 Direct and alternating potential difference	R	R
6.2.3.2 Mains electricity	R	R
6.2.4 ENERGY TRANSFERS		
6.2.4.1 Power	G	A

6.2.4.2 Energy transfers in everyday appliances		А		
6.2.4.3 The National Grid	G	А		
6.3 PARTICLE MODEL OF MATTER				
6.3.1 CHANGES OF STATE AND THE PARTICLE MODEL				
6.3.1.1 Density of materials	G	G		
6.3.1.2 Changes of state		G		
6.3.2 INTERNAL ENERGY AND ENERGY TRANSFERS				
6.3.2.1 Internal energy		А		
6.3.2.2 Temperature changes in a system and specific heat capacity	R	А		
6.3.2.3 Changes of state and specific latent heat	R	А		
6.3.3 PARTICLE MODEL AND PRESSURE				
6.3.3.1 Particle motion in gases		R		
6.4 ATOMIC STRUCTURE				
6.4.1 ATOMS AND ISOTOPES				
6.4.1.1 The structure of an atom		R		
6.4.1.2 Mass number, atomic number and isotopes		R		
6.4.1.3 The development of the model of the atom (common content with chemistry)		R		
6.4.2 ATOMS AND NUCLEAR RADIATION				
6.4.2.1 Radioactive decay and nuclear radiation		G		
6.4.2.2 Nuclear equations	G	G		
6.4.2.3 Half-lives and the random nature of radioactive decay	G	G		
6.4.2.4 Radioactive contamination	G	G		

Required practical's that will be assessed in F & H:

<u>Required practical activity 14:</u> 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.

<u>Required practical activity 16:</u> 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.

Paper 2 Physics

Spec points	Н	F		
6.5 FORCES				
6.5.1 FORCES AND THEIR INTERACTIONS				
6.5.1.1 Scalar and vector quantities	G	G		
6.5.1.2 Contact and non-contact forces	G	G		
6.5.1.3 Gravity	G	G		
6.5.1.4 Resultant forces	G	G		
6.5.2 WORK DONE AND ENERGY TRANSFER	А	А		
6.5.3 FORCES AND ELASTICITY	R	R		
6.5.4 FORCES AND MOTION				
6.5.4.1 Describing motion along a line				
6.5.4.1.1 Distance and displacement	G	G		
6.5.4.1.2 Speed	G	G		
6.5.4.1.3 Velocity	G	G		
6.5.4.1.4 The distance-time relationship	G	G		
6.5.4.1.5 Acceleration	G	G		

6.5.4.2 FORCES, ACCELERATIONS AND NEWTON'S LAWS OF MOTION				
6.5.4.2.1 Newton's First Law	6.5.4.2.1 Newton's First Law G G			
6.5.4.2.2 Newton's Second Law		G		
6.5.4.2.3 Newton's Third Law	G	G		
6.5.4.3 FORCES AND BRAKING				
6.5.4.3.1 Stopping distance	R	G		
6.5.4.3.2 Reaction time	R	G		
6.5.4.3.3 Factors affecting braking distance 1	R	G		
6.5.4.3.4 Factors affecting braking distance 2	R	G		
6.5.5 MOMENTUM (HT ONLY)				
6.5.5.1 Momentum is a property of moving objects	G	R		
6.5.5.2 Conservation of momentum	G	R		
6.6 WAVES				
6.6.1 WAVES IN AIR, FLUIDS AND SOLIDS				
6.6.1.1 Transverse and longitudinal waves	А	А		
6.6.1.2 Properties of waves		А		
6.6.2 ELECTROMAGNETIC WAVES				
6.6.2.1 Types of electromagnetic waves		G		
6.6.2.2 Properties of electromagnetic waves 1	G	G		
6.6.2.3 Properties of electromagnetic waves 2		G		
6.6.2.4 Uses and applications of electromagnetic waves	G	G		
6.7 MAGNETISM AND ELECTROMAGNETISM				
6.7.1 PERMANENT AND INDUCED MAGNETISM, MAGNETIC FORCES AND FIELDS				
6.7.1.1 Poles of a magnet	R	G		
6.7.1.2 Magnetic fields	R	G		
6.7.2 THE MOTOR EFFECT				
6.7.2.1 Electromagnetism	G	G		
6.7.2.2 Fleming's left-hand rule (HT only)	G	R		
6.7.2.3 Electric motors (HT only)	G	R		

Required practical that will be assessed in F & H:

<u>Required practical activity 21:</u> investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.

Subject: Spanish

Exam board: AQA

Level of qualification: GCSE

Changes to coursework	Optional content
N/A	Writing papers will include an additional optional question for the overlap question at both tiers (Question 4/Question 1) and for Higher tier Question 2.
	This means there will be 3 90-word questions and 3 150- word questions to choose from, rather than 2.
	This is so students can answer on their preferred theme. For each optional question, the theme will be given in the introduction to the question in the question paper.
Support materials	
N/A	
Advance Information	
There is no Advance Information fo	r Paper 1 (Listening) Paper 2 (Speaking) or Paper 3 (Reading)

There is no Advance Information for Paper 1 (Listening), Paper 2 (Speaking) or Paper 3 (Reading). Therefore all parts of the specification will need to be revised for these papers, as well as for the Paper 4 Writing Translation.

On Paper 4 – Writing, at Foundation Tier, on the Theme 3 90-word question there will be no bullet point on Education Post-16.

On Paper 4 – Writing, at Higher Tier, on the Theme 1 150-word question there will be no bullet point on Free Time Activities.

The full Advance Information document for AQA Spanish GCSE can be found here: https://filestore.aqa.org.uk/content/summer-2022/AQA-8698-AI-22.PDF

Subject: Cambridge National SPORT Exam board: OCR

Level of qualification: Level 2

Changes to coursework	Optional content			
There are no changes to this year's Cambridge national course. The only unit which has under	N/A			
gone any changes was R042 that the students				
completed last year where they were not able to				
work.				
Support materials				
There is no additional content				
Advance Information				
No Advanced information has/will be released for t	he Cambridge National Sport exams.			