

Year 11 Summer Exam Adaptations Information



EDUQAS GCSE ENGLISH LANGUAGE

Component 1 – 20th Century Literature Prose Reading and Creative Writing 1 hour and 45 minutes

40% of qualification

- Section A (20%) Reading comprehension (40 marks)
- Section B (20%) Writing a story (40 marks)

Component 2 – 19th and 21st Century Non-Fiction Reading and Transactional/Persuasive Writing 2 hours

60% of qualification

- Section A (30%) Reading comprehension (40 marks)
- Section B (30%) Two writing tasks (40 marks)

Summary of EDUQAS alterations:

- **Component 1** no changes
- **Component 2 Section A Reading:** Eduqas have confirmed that the reading materials will be a 21st century article from newspaper and a 19th century extract from non-fiction book.
- **Component 2 Section B Writing**: Eduqas have confirmed that the two writing tasks will consist of a formal letter and a magazine article.

EDUQAS GCSE ENGLISH LITERATURE

Component 1: Shakespeare (*Macbeth*) and Post 1914 Prose (*An Inspector Calls*) 2 hours 50% of gualification

There will be two separate one-hour papers.

- Shakespeare (*Macbeth*) (25%)
 One extract question and one essay question
- Post 1914 Prose (An Inspector Calls) (25%)
 One source-based question

Component 2: 19th Century Prose (*A Christmas Carol*) and Unseen Poetry 2 hours 50% of qualification

There will be two separate one-hour papers.

- 19th Century Prose (*A Christmas Carol*) (25%) One source-based question
- Unseen Poetry from the 20th or 21st Century (25%) Two questions on unseen poems, one of which involves comparison

Summary of EDUQAS alterations:

- Removal of one element of the exam. We have chosen to remove Poetry Anthology.
- More time allocated (extra 15 minutes) for responses to questions on *An Inspector Calls* and *A Christmas Carol*.

HIGHER TIER - EDEXCEL			
	Dan an A	Descent 2	Deres 2
Number (*see Patio – some overlag	Paper 1	Paper 2	Paper 3
Arithmetic			Negative number
	Fraction of an amount		
Fractions	Fraction arithmetic		
	Recurring decimal to fraction		
	Product of prime factors		
Properties			Laws of indices
	Negative and fractional indices		
Powers and roots	Simplification of surds		
Standard Form	Conversion		
Stalldard Form	Calculation		
Approximation and Estimation		Error interval	
Approximation and Estimation			Bounds
Othor		Use of a calculator	
Other			Product rule for counting

Algebra

	Simplification	Simplification	Simplification
	Expansion of bracket	Expansion of bracket	Expansion of bracket
	Manipulation Expansion of bracket Expansion of bracket Manipulation Factorisation Algebraic fractions Laws of indices Algebraic fractions Linear equation Form an equation Form an equation Linear inequality Quadratic equation Quadratic equation Equations of parallel lines Equation of a tangent to a circle Coordinates Quadratic graph Gradients of parallel and perpendicular Speed-time graph Gradient of a curve Graphs Speed-time graph Gradient of a curve Transformations of function	Factorisation	
		Laws of indices	
Manipulation			Substitute values
Wanipulation			Change subject of a formula
			Forming an expression
			Expansion of brackets
			Difference of two squares
	Algebraic fractions		Algebraic fractions
		Linear equation	
	Form an equation	Form an equation	
Manipulation Equations and inequalities Graphs	Linear inequality		
	Quadratic equation		
Equations and inequalities		Quadratic inequality	
Equations and mequanties		Equations of parallel lines	
	Equation of a tangent to a circle		
			Set up and solve equation
			Simultaneous equations linear /quadratic
		Coordinates	
	Quadratic graph		
			Gradient of a straight line graph
	Gradients of parallel and perpendicular		
Graphs	lines		
	Speed-time graph		
	Gradient of a curve		
		Transformations of functions	
		Graphs of trigonometric functions	
Functions		Inverse and composite functions	

Ratio, proportion, and rates of change (*see Number – some overlap of topic areas)

Conversion			Time
Conversion		Area	
	Percentage of an amount		
Percentages			Percentage decrease
Fercentages		Depreciation	Depreciation
			Reverse percentage
	Write as a ratio		Write as a ratio
	Use of ratio	Use of ratio	
Ratio			1 : n form
	Share in a ratio		Share in a ratio
	Ratio to fraction		
		Direct proportion	Direct proportion
Broportion		Currency conversion	
Proportion		Inverse proportion	
	Equations of proportion		
			Average speed
Compound Measures	Density		
Percentages		Pressure	
Growth and decay			General iterative processes

Geometry and measures

Shape		Transformations	
Angles	Angles in a polygon		
Angles		Circle theorems	Circle theorems
		Area of a rectangle	
	Area of a triangle		
Length, area and volume Area Surface Volu Pythag			Area of a trapezium
	Area of a sector		
	Surface area of a cuboid		
	Volume of a cube		
		Volume of composite solid	
		Circle theorems Area of a rectangle Volume of composite solid Sine and Cosine Rules	Similar triangles
	Pythagoras's Theorem		Pythagoras's Theorem
Duthagoras's Theorem and			Trigonometry
	Performance Angles in a polygon Infansion infantions Performance Circle theorems Infansion infantions Performance Area of a triangle Infansion infantions Area of a triangle Area of a rectangle Infansion infantions Area of a triangle Area of a rectangle Infansion infantions Area of a triangle Area of a rectangle Infantions Area of a sector Infantions Infantions Area of a sector Infantions Infantions Surface area of a cuboid Infantions Infantions Volume of a cube Volume of composite solid Infantions Pythagoras's Theorem Infantions Infantions heorem and metry Sine and Cosine Rules Infantions Exact trigonometric values Infantions Infantions Drs Vector geometry Infantions Infantions		
Pythagoras's Theorem and Trigonometry			Trigonometry in 3-D
	Angles Angles in a polygon Image: Angles in a polygon Circle theorems Image: Circle theorems Image: Circle theorems Area of a triangle Image: Circle theorems Surface area of a cuboid Image: Circle theorems Volume of a cube Image: Circle theorems Volume of a cube Image: Circle theorems Image: Circle theorem and igonometry Image: Circle theorems Image: Circle theorem and Circle area of a cuboid Image: Circle theorems Image: Circle theorem and Circle area of a cuboid Image: Circle theorem and Circle area of Circle area of theorem Image: Circle theorem and Circle area of area of theorem Image: Circle area of Circle area of theorem Image: Circle theorem and Circle area of theorem Image: Circle area of theorem Image: Circle theorem and Circle area of theorem Image: Circl		
Angres			Column vectors
vectors	Vector geometry	Circle theorems Area of a rectangle Volume of composite solid Sine and Cosine Rules	

Probability

	Probability		
		Venn diagram	
Probability		Probability from a Venn diagram	
	Independent combined events		
			Dependent combined events

Statistics

Diagrama			Frequency polygon
	Cumulative frequency graph		
Diagrams		Box Plot	
			Histogram
	Mean		
Measures		Lower and upper quartiles	
	Inter-quartile range		
Deputation		Compare distributions	
Population		Capture-recapture method	

Γ	Paper 1	Paper 2	Paper 3
Number (*see Ratio – some overlag	p of topic areas)		
	Money	Money	
Arithmetic	woncy	Woney	Four Operations
Antimetic	Nogative numbers	Negative numbers	Negative numbers
	Negative numbers	Negative numbers	Negative numbers
	Order fractions, decimals, percentages		
	Fraction of an amount		Fraction of an amount
Fractions			One amount as a fraction of another
	Fraction arithmetic	Fraction arithmetic	
		Order fractions	
			Equivalent fractions
	Place value		
		Order integers	
		Multiples	
Properties			Factors
			Lowest Common Multiple
-	Droduct of prime factors		Lowest common multiple
Devices and so at-	Product of prime factors		Course reat
Powers and roots			Square root
Standard Form	Conversion		
	Calculation		
		Rounding	Rounding
Approximation and Estimation	Estimation		
		Error Intervals	
Other		Mathematical symbols	Calculator use
Algebra			
	Simplification	Simplification	Simplification
		Expansion of bracket	Expansion of bracket
		Eactorisation	Eactorisation
Manipulation	Substitute values	Tactorisation	Cubstitute values
Manipulation	Substitute values		Substitute values
			Change subject of a formula
			Forming an expression
		Laws of indices	
			Linear equation
	Linear inequality		
Equations and inequalities		Linear simultaneous equations	
			Form an equation
	Quadratic equation		
		Coordinates	
Graphs		Straight line graph	
	Quadratic graph		
Functions	Cuudintie Brahii	Number machines	
Functions	Linear convence	Number machines	Linear coquence
Sequences	Linear sequence		Lifear sequence
Ratio, proportion, and rates of char	nge ("see Number – some overlap of topic areas)		
	Length	Mass, time, area	lime
Conversion			Compound units
		Scale drawing	Scale drawing
			Percentage to fraction
		Decimal to percentage	
	Percentage of an amount		
	Percentage increase		Percentage decrease
Percentages	, and the second s	Percentage profit	
			One quantity as a percentage of another
		Depreciation	
		Depredation	Reverse percentage
├	Write as a ratio	Write as a ratio	Write as a ratio
	Share in a ratio		
Ratio	Sildre ill à fàllo		
		Use of ratio	
<u> </u>			1 : n form
Proportion	Direct proportion	Direct proportion	Direct proportion
		Currency conversion	
	Speed		
Compound Measures			Average speed
l í	Density		

Geometry and measures

			Triangle properties
Shape Angles Length, area and volume			Quadrilaterals
		Polygons	
			Triangular prism
Shape		Circles	
		Parallel and perpendicular lines	
	Reflection		
		Transformations	
	Plan and elevation		
		Angles in a triangle	Angles in a triangle
Shape Shape Angles Angl		Vertically opposite angles	Vertically opposite angles
Angles			Angle properties of parallel lines
	Angles in a polygon		
			Bearings
		Area of a rectangle	
			Area of a triangle
Length, area and volume			Area of a trapezium
	Volume of a cube		
	Volume of a cylinder		
Pythagoras's Theorem and			Pythagoras's Theorem
Trigonometry	Exact trigonometric values		

Probability

			Probability scale
	Probability		Probability
Probability	Frequency tree		
		Tree diagram	
		Combined events	

Statistics

	Pictogram		
	Bar chart		
		Interpret graph	
Diagrams		Two-way table	
		Frequency table	
	Stem and leaf diagram		
			Frequency polygon
Measures		Mode, median, mean	Median and range
Population			Comparison of distributions

GCSE Art

Students will only complete component 1 (Portfolio) only for GCSE Art and Design: Art, Craft and Design. This means that students won't need to start or complete Component 2 (Externally Set Assignment). Students will need to complete Component 1 in the normal way and will be marked out of 96 as usual. The assessment criteria in the specification remains the same.

AQA GCSE Biology: Higher tier

Advance Information of Assessed Content 2022

Link to specification: GCSE Biology Specification

Link to advance information document: AQA Advanced information - GCSE Biology

	These specification points will be the major focus of this paper. Exam date: 17 th May All other specification points from B1, other those on the next slide that are not explicitly omitted, may				
)er	still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision Spec point Concepts CGP Biology revision Bitesize YouTube				
gy Pap	4.1.1 Cell Structure	 Difference between prokaryotic and eukaryotic cells Comparison of plant cells and animal cells Function of organelles Cell differentiation and specialised plant cells and animal cells 	11, 14	https://www.bbc.co.uk/bit esize/guides/z84jtv4/revisi on/1	Prokaryotic and eukaroytic cells Animal cells Plant cells
Biolo	Required practical 1: use of light microscope to observe cells	How to prepare slides How to use the microscope to improve field of view, clarify, change magnification Microscopy calculations Unit conversions (mm, micrometres etc)	12-13	https://www.bbc.co.uk/bit esize/guides/z84jtv4/revisi on/1	Required practical - Use of microscopes Microscopy Orders of magnitude
ple	4.1.3 Transport in cells	 Diffusion Factors affecting the rate of diffusion Osmosis Active transport 	20-22	https://www.bbc.co.uk/bit esize/guides/zs63tv4/revisi on/4	Osmosis Diffusion Active transport
Tri	Required practical 3: Investigate the effect of a range of concentrations of salt solution on the mass of plant tissue	Calculate rate of water uptake Identify independent, dependent and control variables Calculate percentage change in mass Interpret graph to find salt/ sugar concentration in potato	21	https://www.bbc.co.uk/bit esize/guides/zs63tv4/revisi on/5	Required practical link
	-			Continue	d on next slide

Spec p	oint	Concepts	CGP revision	Bitesize	YouTube
4.2.2 Anim tissues, or, organ syst	al gans and ems	Functions of tissues and organs in the digestive system Digestive enzymes Functions of tissues and organs in the circulatory system -Pathway of blood through the heart -adaptations of components of the blood -risk factors of non-communicable diseases	28, 30, 31, 33, 34, 35, 37, 38 - 40	Digestion Animal transport systems	https://www.youtub watch?v=4ui4oSHHn; https://www.youtub watch?v=VLK2wANjC https://www.youtub watch?v=bpYaKM2hV
Required (4: Use qua reagents to for a range carbohydr lipids and	oractical litative o test o f ates, proteins	 Reagents used to test for sugars, starch, proteins and lipids Positive result for each food test Conditions required to carry out food test 	32	Food tests	Food tests – video su Food tests - detailed methods
4.2.3 Plant organs and systems	tissues,	- cross section of a leaf - functions and adaptations of xylem and phloem - transpiration - translocation	42 - 44	<u>Plant organisation</u>	Plant organisation Transpiration Plant cell specialisatio

\bigcap	These specific	cation points will be the major f	ocus of this (oaper.	Exam	date: 17 th May
r 1	All other spec omitted, may cannot be cor	ification points from B1, other t still be assessed in multiple ch npletely ignored in your revision	hose on the bice questior	<u>next slide</u> that ns/linked to a p	are not e revious a	explicitly answer, so
be	Spec point	Concepts	CGP revision guide pages	Bitesize	1	YouTube
iology Pa	4.3.1 Communicable Diseases	-definition and examples of pathogen -how viruses and bacteria make us ill -examples of diseases caused by each type of pathogen -human defence mechanisms -what happens in a vaccine -comparing antibody production after active and passive immunity	46 - 50	https://www.bbc. esize/guides/zs4n ion/1	co.uk/bit 1k2p/revis	https://www.youtube.com/ watch?v=rAJGnS_ktk4
iple B	4.3.2 Monoclonal antibodies	 Describe what a monoclonal antibody is Describe how monoclonal antibodies are produced Describe how monoclonal antibodies can be used 	53 - 54	https://www.bbc. esize/guides/zt8t: on/1	<u>co.uk/bit</u> 3k7/revisi	Monocional antibodies Uses of monocional antibodies
Tr						

	Spec point	CGP Biology Revision Guide Pages
ape	4.2.2.3 Blood	36
P P	4.2.2.7 Cancer	41
010	4.3.1.8 Antibiotics and painkillers	51
Bi Bi	4.3.1.9 Discovery and the development of drugs	52
riple	4.4.2.2 Response to exercise	63

	These specific	ation points will be the major f	ocus of this p	oaper.	Exam	date: 15 th June
r 2	All other spec may still be as completely ign	ification points from B2, other t ssessed in multiple choice ques nored in your revision	those on the tions/linked	<u>next slide</u> that to a previous ar	are not e nswer, so	explicitly omitted, o cannot be
)e	Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
Pap	4.5.2 The human nervous system	 Function of the NS Control of body temperature Response to high/ low temperatures 	72	Controlling body temperature.		https://www.youtube.com/ watch?v=WoMPARSQPZw
logy	4.5.3 Hormonal control in humans	The endocrine system Function of hormones within the endocrine system Control of blood glucose Diabetes Kidneys and the role of ADH Adrenaline and thyroxine	73 - 76, 80	https://www.bbc. esize/guides/zttqf on/1	<u>co.uk/bit</u> <u>cw/revisi</u>	Endocrine system
Big	4.5.4 Plant hormones	 Site of auxin production Role of auxin in producing phototropism / gravitropism 	81	https://www.bbc. esize/guides/zc6co on/1	<u>co.uk/bit</u> ahv/revisi	https://www.youtube.com/ watch?v=_Bf5WKEMB5o
Triple	Required practical 8 – Investigate the effect of light on the growth of newly germinated seedlings	- identify independent, dependent and control variables - Describe how variables can be controlled	81	https://www.bbc. esize/guides/zc6co on/3	<u>co.uk/bit</u> ahv/revisi	https://www.youtube.com/ watch?v=fEo21LbnJJM
				Co	ntinue	ed on next slide

- 2	These specific All other spec may still be a s	ation points will be the major f ification points from B2, other t ssessed in multiple choice ques	ocus of this p those on the tions/linked	next slide that are not to a previous answer, s	n date: 15 th June explicitly omitted, so cannot be
lel	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Pap	4.6.1 Reproduction	 Sexual and asexual reproduction Gametes Meiosis 	87-89	https://www.bbc.co.uk/bit esize/guides/z9pkmsg/revis ion/1	https://www.youtube.com/ watch?v=Fh9b6a-3DLQ
ОВУ	4.7.2 Organisation of an ecosystem	-interpret food chains and webs -identify producers, consumers, predators and prey from food chains and webs -describe the carbon and water cycles	86, 89-90	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/1	https://www.youtube.com/ watch?v=dRFQ8rZCK6Q https://www.youtube.com/ watch?v=urzpnjwazV0
iple Biol	Required Practical 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	-Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem. -Understand the terms mean, mode and median -Calculate arithmetic means	110-111	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/3	https://www.youtube.com/ watch?v=2MW6nwf80XM https://www.youtube.com/ watch?v=RhMOCXXDrQ https://www.youtube.com/ watch?v=yLHz2Ea10Mg&t= 25
μ				Continu	ed on next slide

Spec point	CGP Revision Guide Pages
Topic 5: Homeostasis and re	sponse
4.5.2.1 Structure and function	66 - 68
4.5.2.2 The brain	69
4.5.2.3 The eye	70-71
4.5.2.3 Hormones in human reproduction	77- 79
4.5.3.5 Contraception	78
4.5.3.6 The use of hormones to treat infertility	78
4.5.3.7 Negative feedback	65
4.5.4.2 Uses of plant hormones	82
Topic 6: Inheritance, variation an	d evolution
4.6.1.3 Advantages/ Disadvantages of sexual and asexual reproduction	89 (top half)
4.6.1.8 Sex determination	90
4.6.2 Variation and evolution	95-97
4.6.3 The development of understanding of genetics and evolution	94
4.6.4 Classification of living organisms	104

Topic 7: Ecology	
4.7.1.4 Adaptations	
	108
4.7.2.4 Impact of environmental change	112
4.7.3.1 Biodiversity	116
4.7.3.4 Deforestation	118
4.7.4.1 Trophic levels	120
4.7.4.2 Pyramids of Biomass	121
4.7.5.3 Sustainable fisheries	123 (middle section)
4.7.5.4 Role of biotechnology	124

AQA GCSE Chemistry: Higher

Advance Information of Assessed Content 2022

Link to specification: <u>GCSE Chemistry Specification Specification for</u> <u>first teaching in 2016 (aqa.org.uk)</u>

Link to advance information document: <u>Advanced information June</u> <u>2022 - GCSE Chemistry (8462) (aqa.org.uk)</u>

I	These spec All other sp assessed in	ification points will be the major focus of pecification points from C1, other than the multiple choice questions/linked to a pre	this paper. ose on the <u>next</u> evious answer,	Exam t slide that are explicitly om so cannot be completely ign	date: 27 th May itted, may still be nored in your revision
1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Paper 1	4.1.2 The Periodic Table	-The Periodic Table is arranged in order of proton number -What atoms of elements in the same group have in common -What atoms of elements in the same period have in common -development in the Periodic Table -ions formed from metals and non-metals -trends in physical and chemical properties of group 1,7 and 0 elements - Reactions of group 1 and 7 elements	20-26	https://www.bbc.co.uk/bit esize/guides/23g2nb/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zg923k7/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zqwtcj6/revisi on/1	https://www.youtube.com/ watch?v=idS9roW7izM&t=1 19s https://www.youtube.com/ watch?v=uwzXfZoCP_k https://www.youtube.com/ watch?v=dZGDUKQa_6g https://www.youtube.com/ watch?v=HTI2APQIBAQ
Chemistry	4.2.1 Chemical bonds, ionic, covalent and metallic	-Describe the process of ionic bonding -Describe the process of covalent bonding -explain chemical bonding in terms of electrostatic forces and the transfer or sharing of electrons. -work out the charge on the ions of metals and non-metals from the group number of the element, limited to the metals in Groups 1 and 2, and non-metals in Groups 6 and 7 -Describe the structure of ionic compounds -draw dot and cross diagrams for the molecules of hydrogen, chlorine, oxygen, nitrogen, hydrogen chloride, water, ammonia and methane -Describe the structure of metals	28-31,35	https://www.bbc.co.uk/bit esize/guides/zyydng8/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zcpifcw/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z8db7p3/revis ion/1	https://www.youtube.com/w atch?v=6DtrrWA5nkE https://www.youtube.com/w atch?v=lenvZeCMc60 https://www.youtube.com/w atch?v=lhEm?aAKIDg https://www.youtube.com/w atch?v=51_JIRGSR9E https://www.youtube.com/w atch?v=b1v2QeYx1bQ https://www.youtube.com/w atch?v=A-wTpLPICd0&t=13s
				Continue	d on next slide

I	These spec All other sp assessed in	ification points will be the major focus of pecification points from C1, other than the multiple choice questions/linked to a pre	this paper. ose on the <u>next</u> evious answer,	Exam t slide that are explicitly om so cannot be completely ign	date: 27 th May itted, may still be nored in your revision
1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Paper 1	4.2.2 How bonding and structure are related to the properties of a substance	-interpreting melting and boiling point data to determine state at a certain temp -link energy needed to change state to strength of forces between particles -state symbols -describe & explain properties of ionic compounds -describe & explain properties of simple covalent molecules -describe & explain properties of polymers -describe & explain properties of metals and alloys	28-32, 35-37	https://www.bbc.co.uk/bitesize /guides/zvydng8/revision/1 https://www.bbc.co.uk/bitesize /guides/zcpftcw/revision/1 https://www.bbc.co.uk/bitesize /guides/z9twsrd/revision/1 https://www.bbc.co.uk/bitesize /guides/z8db7p3/revision/1	https://www.youtube.com/ watch?v=leVxy?cjZMU https://www.youtube.com/ watch?v=DECGNyC-x_s https://www.youtube.com/ watch?v=EP0zfm_EVac https://www.youtube.com/ watch?v=A-wTpLPICd0
Chemistry	4.2.3 Structure and bonding of carbon	-describe and explain the properties of diamond, graphite, graphene and fullerenes	33-34	https://www.bbc.co.uk/bit esize/guides/r9twsrd/revisi on/1	https://www.youtube.com/ watch?v=tGH0mXCcEFU
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Т	These spec All other sp assessed in	ification points will be the major focus of recification points from C1, other than the multiple choice questions/linked to a pre	this paper. ose on the <u>next</u> evious answer,	Exam so cannot be completely ign	date: 27 th May itted, may still be hored in your revision
1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
stry Paper 1	4.3.2 Use of amount of substance in relation to masses of pure substances	-calculating relative formula mass -calculating the number of moles in a given mass of a substance, calculating the mass of a certain no. of moles of a substance -Avogadro's constant – the number of particles in 1 mole of every substance -calculate the masses of reactants and products from the balanced symbol equation and the mass of a given reactant or product. -using molar ratios to balance equations -identifying limiting reactants and explaining the effect on yield of products -define concentration of a solution -calculate the concentration of a solution, or the mass of a solute dissolved in a given volume to create a solution of given concentration	41-47	https://www.bbc.co.uk/bit esize/guides/zgcyw6f/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z3kg2nb/revis ion/1	https://www.youtube.com/ watch?v=q49NwlrjaFw https://www.youtube.com/ watch?v=VVGVQu3UXpw https://www.youtube.com/ watch?v=TVGn5MFHGIU https://www.youtube.com/ watch?v=Mu2OmFhiE8o https://www.youtube.com/ watch?v=3G3KQIyoZDI
Chemi				Continue	d on next slide

I	These specification All other specifica assessed in multi	on points will be the major focus of the stion points from C1, other than thos ple choice questions/linked to a previ	nis paper. e on the <u>next s</u> ious answer, so	Exam d	ate: 27 th May ed, may still be red in your revision
1.1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Paper 1	4.4.1 The Reactivity of Metals	-Metals + oxygen -Reduction and oxidation in terms of oxygen -reduction and oxidation in terms of electrons -identify in a given reaction, symbol equation or half equation which species are oxidised and which are reduced -The Reactivity Series - Displacement reactions - Extraction of metals by reduction	55-57	https://www.bbc.co.uk/bite size/guides/zsm7v9q/revisi on/1	https://www.youtube.com/ watch?v=Lk1V0buHEFs https://www.youtube.com/ watch?v=gnbuTl2arii https://www.youtube.com/ watch?v=2I5Lm7BMtpo https://www.youtube.com/ watch?v=MXTSeIs6e2Y
nemistry	4.4.2 Reactions of Acids	-Naming Salts -products of the reactions of acids and metals -explain the reactions of metals and acids in terms of loss and gain of electrons -produces of the reactions of acids and alkalis and insoluble bases -products of the reactions of acids and metal carbonates -pH scale and neutralisation -difference between strong and weak acids	51,53-54	https://www.bbc.co.uk/bite size/guides/zcjifcw/revision /1 Continued	https://www.youtube.com/ watch?v=ofw6oHSYGFI GCSE Science Revision Chemistry "Acids Reacting with Metals 2" - YouTube https://www.youtube.com/ watch?v=QISsle_iSQ8
C	4.4.2.3 and Required Practical 1: preparation of a pure, dry sample of soluble salts	-method of producing solid salt crystals from insoluble oxide or carbonate and acids -identifying errors in methods and reagents	Bottom half pg 54	https://www.bbc.co.uk/bite size/guides/zcjjfcw/revision /6	https://www.youtube.com/ watch?v=9GH95172Js8&t=1 65 GCSE Science Revision Chemistry "Strong and Weak Acids" – YouTube

All other specific may still be asse completely ignor	cation points from C1, other ussed in multiple choice quest red in your revision	than those of stions/linked	n the <u>next slide</u> that al to a previous answer,	e explicitly omitte so cannot be
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.4.2.5 and Required practical 2: determination of the reacting volumes of solutions of a strong acid and a strong alkali by titration.	-Method -control variables and how to monitor them -quantitative analysis of results	52	https://www.bbc.co.uk/bit esize/guides/zx98pbk/revis on/1	https://www.youtu atch?v=saRBT5oZfh https://www.youtu atch?v=vn3Rx3g1Vf https://www.youtu atch?v=xxBLLCNMP https://www.youtu atch?v=yc24QkteRJ
4.4.3 Electrolysis	-The process of electrolysis -identifying oxidation and reduction in terms of electrons -writing half equations for oxidation/reduction reactions occurring at each electrode -Electrolysis of molten ionic compounds -Electrolysis of aluminium oxide -Electrolysis of aluminium oxide -Electrolysis of angueous solutions, predicting products formed	58-59	https://www.bbc.co.uk/bit esize/guides/zcsyw6f/revisi on/1	https://www.yout watch?v=AhTRiL6x https://www.yout watch?v=IINOpRO: https://www.yout watch?v=YcyMEIB/ https://www.yout watch?v=GWJC vy https://www.yout watch?v=GWJC vy

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1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
nistry Paper 1	4.5.1 Exothermic and endothermic reactions	-describe the law of the conservation of energy -define exo and endothermic reactions and describe their features -give examples of exo and endothermic reactions -define activation energy -represent exo and endothermic reactions with reaction profiles -describe bond breaking in the reactants as an endothermic process -describe bond formation in the products as an exothermic process -calculate the energy transferred in chemical reactions using bond energies supplied -Use energy change values to identify if a reaction is exo/endothermic	61-63	https://www.bbc.co.uk/bit esize/guides/zwfr2nb/revisi on/1	https://www.youtube.com/ watch?v=4HS6D0hTzdg https://www.youtube.com/ watch?v=dstRL5x805k https://www.youtube.com/ watch?v=it0HGXhxD-s https://www.youtube.com/ watch?v=ExCBkp4jB4 https://www.youtube.com/ watch?v=PdValXAVUOc
Cher	Required Practical 4: investigate the variables that affect temperature changes in reacting solutions such as, eq acid plus metals, carbonates, neutralisations, displacement of metals	-Identifying independent, dependent, control variables -Analysing results -identifying exo and endothermic reactions from experimental results	62	https://www.bbc.co.uk/bit esize/guides/zwfr2nb/revisi on/2	https://www.youtube.com/ watch?v=8x0C9mmF2tw

Ţ	These specification points will not be asses	Exam date: 20 th June
<u> </u>	Spec point	CGP Revision Guide Pages
	4.2.4 Bulk and surface properties of matter including nanoparticles	38-39
Pape		
Chemistry		



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\sim	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
emistry Paper	4.6.2 Reversible reactions and dynamic equilibrium	-Identify and give examples of reversible reactions -Apply the conservation of energy to reversible reactions -Define dynamic equilibrium -Describe Le Chatelier's principle -Describe and explain the effect of changing the following conditions on equilibrium; concentration, temperature, pressure	72-73	https://www.bbc.co.uk/bit esize/guides/zyhw6f/revis on/1	https://www.youtube.com/ watch?v=66qcNNJFy6E GCSE Science Revision Chemistry "Concentration and Reversible Reactions" – YouTube GCSE Science Revision Chemistry "Pressure and Reversible Reactions" – YouTube GCSE Science Revision Chemistry "Temperature and reversible reactions" – YouTube GCSE Chemistry - Le Chatelier's Principle #42 (Higher Tier) – YouTube
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2	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
aper	4.9.1 The composition and evolution of the Earth's Atmosphere	-describe the composition of the current atmosphere -describe the composition of the early atmosphere and explain theories of how the early atmosphere formed -explain how the early atmosphere changed to that of the present atmosphere	91	https://www.bbc.co.uk/bit esize/guides/zg4qfcw/revisi on/1	https://www.youtube.com/ watch?v=t123GINIdLA https://www.youtube.com/ watch?v=I0h -3M0Pso
hemistry P	4.10.1 Using the Earth's resources and obtaining potable water	-Describe the renewable and non- renewable resources that we get form the Earth and its atmosphere -Define the term potable water -Describe how potable water can be produced. -Describe the differences in the treatment of waste water, salt water and ground water -Describe and evaluate alternative methods of extracting metals e.g. phytomining and bioleaching		https://www.bbc.co.uk/bit esize/guides/zgqhcj6/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zpcjsrd/revisio n/1 Biological methods of metal extraction - Higher - Ways of reducing the use of resources - AQA - of CSE Chemistry (Single Science) Revision - AQA - BBC Bitesize	https://www.youtube.com/ watch?v=:XczTGavTZU https://www.youtube.com/ watch?v=n?pYRGs20bi https://www.youtube.com/ watch?v=bSRVPauf4oM
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	Spec point	CGP Revision G	uide Pages
r 2	4.9.2 Carbon dioxide and methane as greenhouse gases	92-94	
Pape			
Chemistry			

AQA GCSE Combined Science Trilogy: Foundation

Advance Information of Assessed Content 2022

Link to specification: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF Link to advance information document: https://filestore.aqa.org.uk/content/summer-2022/AQA-8464-AI-22.PDF Link to revised Physics equation sheet: https://filestore.aqa.org.uk/resources/science/AQA-8464-8465-ES-INS.PDF

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1.1	Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
oer 1	4.1.2 Cell Division	-How DNA is arranged as chromosomes -Series of stages in the cell cycles inc. mitosis -Definition and uses of stem cells	15-16	https://www.bbc. esize/guides/z2km sion/2 https://www.bbc. esize/guides/z2km sion/3	<u>co.uk/bit</u> hk2p/revi co.uk/bit hk2p/revi	https://www.youtube.com/ watch?v=RHyZVmbiA78 https://www.youtube.com/ watch?v=Kh27eyjxvYM&t=2 4s
Pap	Required practical 1: use of light microscope	-How to prepare slides -How to use the microscope to improve field of view, clarify, change magnification - Microscopy calculations	12-13	https://www.bbc. esize/guides/zpqp ion/1	<u>co.uk/bit</u> qhv/revis	https://www.youtube.com/ watch?v=jBVxo5T- ZQM&t=8s
3iology	4.2.2 Animal tissues, organs and organ systems	 Functions of tissues and organs in the digestive system Digestive enzymes Functions of tissues and organs in the circulatory system Pathway of blood through the heart -adaptations of components of the blood -risk factors of non-communicable diseases 	24, 27, 30-32 35-37	https://www.bbc.d esize/guides/z89m sion/1 https://www.bbc.d esize/guides/zsncs on/1	co.uk/bit hk2p/revi co.uk/bit srd/revisi	https://www.youtube.com/ watch?v=4ui4oSHHnzA https://www.youtube.com/ watch?v=VLK2wANjQmQ https://www.youtube.com/ watch?v=bpYaKM2hVFY
	Required practical 3: test for carbohydrates, lipids and proteins	-Reagent and positive result for carbohydrates, proteins and lipids	28	https://www.bbc. esize/guides/z89m sion/3	co.uk/bit 1k2p/revi	https://www.youtube.com/ watch?v=SqWTJWOBww4
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1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
y Paper 1	4.3.1 Communicable Diseases	-definition and examples of pathogen -how viruses and bacteria make us ill -examples of diseases caused by each type of pathogen -human defence mechanisms -what happens in a vaccine -comparing antibody production after active and passive immunity -role of antibiotics -stages in the development of drugs	42-49	https://www.bbc.co.uk/bit esize/topics/z9kww6f	https://www.youtube.com/ watch?v=dbd5iydu3EY https://www.youtube.com/ watch?v=5X9MklLVhlw https://www.youtube.com/ watch?v=HSrrPdJDqxM https://www.youtube.com/ watch?v=uPzBhYlnU https://www.youtube.com/ watch?v=w3ykU52K-Hw
60	4.4.1 Photosynthesis	-photosynthesis equation -factors affecting rate of photosynthesis	50-52 Not inc. bottom half of 50	https://www.bbc.co.uk/bit esize/guides/zs4mk2p/revis ion/1	https://www.youtube.com/ watch?v=rAJGnS_ktk4
Bio	Required Practical 5: effect of light intensity on rate of photosynthesis	-independent, dependent, control variables -How to measure the dependent variable -method -analysing results	52	https://www.bbc.co.uk/bit esize/guides/zs4mk2p/revis ion/5	https://www.youtube.com/ watch?v=cBCKedXdFeE

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LL.	Spec point	CGP Revision Guide Pages
	4.1.3.2 Osmosis	18
oer	4.1.3.3 Active Transport	19
Pal	4.2.2.4 Coronary Heart Diseases	33-34
ogy	4.4.1.3 Uses of Glucose from Photosynthesis	Bottom half of pg 50
Biol	4.4.2 Respiration	53-55

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1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Paper 1	5.1.2 The Periodic Table	-The Periodic Table is arranged in order of proton number -What atoms of elements in the same group have in common -What atoms of elements in the same period have in common -development in the Periodic Table -ions formed from metals and non-metals -trends in physical and chemical properties of group 1,7 and 0 elements - Reactions of group 1 and 7 elements	106-111	https://www.bbc.co.uk/bit esize/guides/zwt2k2p/revis ion/1 https://www.bbc.co.uk/bit esize/guides/ztrxdxs/revisio n/1	https://www.youtube.com/ watch?v=Id59roW7lzM&t=1 19s https://www.youtube.com/ watch?v=UZGOLVGA_6g https://www.youtube.com/ watch?v=ZGOLVGA_6g https://www.youtube.com/ watch?v=HT12APQIBAQ
emistry	5.2.2 How bonding and structure are related to the properties of a substance	-interpreting melting and boiling point data to determine state at a certain temp -state symbols -describe and explain properties of ionic compounds -describe and explain properties of simple covalent molecules -describe and explain properties of polymers -describe and explain properties of metals and alloys	115,117- 118, 120	https://www.bbc.co.uk/bit esize/topics/z33rrwx	https://www.youtube.com/ watch?v=leVxy?cjZMU https://www.youtube.com/ watch?v=DECGNyC-x_s https://www.youtube.com/ watch?v=EP02fm_FVac https://www.youtube.com/ watch?v=A-wTpLPICd0
Ch	5.2.3 Structure and bonding of carbon	-describe and explain the properties of diamond, graphite, graphene and fullerenes	118-119	https://www.bbc.co.uk/bit esize/guides/zgq8b82/revis ion/2	https://www.youtube.com/ watch?v=tGH0mXCcEFU
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	previous answe	r, so cannot be completely igno	red in your r	evision	
	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
aper 1	5.4.1 The Reactivity of Metals	-Metals + oxygen -Reduction and oxidation in terms of oxygen -The Reactivity Series - Displacement reactions - Extraction of metals by reduction	130-131	https://www.bbc.co.uk/bit esize/guides/zy7dgdm/revi sion/1	https://www.youtube.com/ watch?v=Lk1V0buHEFs https://www.youtube.com/ watch?v=2ISLm7BMtpo https://www.youtube.com/ watch?v=MXTSels6e2Y
try Pa	5.4.2 Reactions of Acids	-Naming Salts -products of the reactions of acids and metals -produces of the reactions of acids and alkalis and insoluble bases -products of the reactions of acids and metal carbonates -pH scale and neutralisation	128-129	https://www.bbc.co.uk/bit esize/guides/ztv2dxs/revisi on/1	https://www.youtube.com/ watch?v=ofw6oHSYGFI https://www.youtube.com/ watch?v=QISsle_jSQ8
mis	5.4.2.3 and Required Practical 8: preparation of a pure, dry sample of soluble salts	-method of producing solid salt crystals from insoluble oxide or carbonate and acids -identifying errors in methods and reagents	129	https://www.bbc.co.uk/bit esize/guides/ztv2dxs/revisi on/5	https://www.youtube.com/ watch?v=9GH95172Js8&t=1 6s
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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
5.4.3 Electrolysis	-The process of electrolysis -Electrolysis of molten ionic compounds -Electrolysis of aluminium oxide -Electrolysis of aqueous solutions	130-131	https://www.bbc.co.uk/bit esize/guides/z9h9v9g/revis ion/1	https://www.youtube. watch?v=AhTRiL6xjBA2 https://www.youtube. watch?v=IINOpROacf0 https://www.youtube. watch?v=YcyMEIBEAY https://www.youtube. watch?v=6WjC_VI4roA
Required Practical 9: : investigate what happens when aqueous solutions are electrolysed using inert electrodes.	-Developing a hypothesis -Planning an investigation	128-129	https://www.bbc.co.uk/bit esize/guides/z9h9v9q/revis ion/3	https://www.youtube. watch?v=ukbtTTG1Kev
Required Practical 10: investigate the variables that affect temperature changes in reacting solutions such as, eg acid plus metals, carbonates, neutralisations, displacement of metals	-Identifying independent, dependent, control variables -Analysing results -Identifying exo and endothermic reactions from experimental results	135	https://www.bbc.co.uk/bit esize/guides/z2b2k2p/revis ion/2	https://www.youtube. watch?v=Bz0C9mmF2t

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
6.1.1 Energy Changes in a system, and the ways energy us stored before and after such changes	-identifying the energy changes in systems -calculate, using equations, the amount of energy associated with a moving object, a stretched spring and an object raised above ground level. -calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes -Calculate Power	167-172	https://www.bbc.co.uk/bit esize/guides/zskp7p3/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z8pk3k7/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zy8g3k7/revisi on/1	https://www.youtu watch?v=JGwcDCei https://www.youtu watch?v=2y9eWzm watch?v=Qw 9kX9 https://www.youtu watch?v=630TidMb https://www.youtu watch?v=EDT0DPha
Required Practical 14: an investigation to determine the specific heat capacity of one or more materials.	linking the decrease of one energy store (or work done) to the increase in temperature and subsequent increase in thermal energy stored	171	https://www.bbc.co.uk/bit esize/guides/zy8g3k7/revisi on/4	https://www.youtu watch?v=Hs5x0-IU2 https://www.youtu watch?v=loeRLKNe
6.1.3 National and global energy resources	-describe renewable and non- renewable energy resource -compare advantages and disadvantages of different energy resources	176-179	https://www.bbc.co.uk/bit esize/guides/z2wfxfr/revisi on/1	https://www.youtu watch?v=1dJKvxhG https://www.youtu watch?v=pgzvUur7

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
6.2.1 Current, potential difference and resistance	-circuit diagram symbols -definition and units of electrical current and charge -calculating charge flow using an equations -definition and units of potential difference -definition and units of resistance -relationship between current, potential difference and resistance -calculate current, potential difference or resistance using an equation -ly graphs of resistor at constant temp, filament lamp, diode -applications of LDRs and thermistors	180-184	https://www.bbc.co.uk/bit esize/guides/zgvq4qt/revisi on/1	https://www.youti watch?v=sFUmuuJ https://www.youti watch?v=ts7Wumf https://www.youti watch?v=hRojfU77
equired ractical 16: onstruct opropriate rcuits to vestigate the I– characteristics f circuit lements, inc. a lament lamp, iode and a sisistor at onstant temp.	-placing ammeter and voltmeter in the correct place in a circuit to measure the current through and potential difference across a component -Plotting graphs -Describing and explaining patterns shown in graphed data	183	https://www.bbc.co.uk/bit esize/guides/zgvq4qt/revisi on/5	https://www.yout watch?v=A1SyKvd 29s

Spec point	Concepts	CGP revision	Bitesize	YouTu
6.3.1 Changes of state and the particle model	-Define and calculate the density of a substance or object - recognise/draw simple diagrams to model the difference between solids, liquids and gases - explain the differences in density between the different states of matter in terms of the arrangement of atoms or moleculesdescribe how, when substances change state mass is conservedDescribe changes of state as physical changes	guide pages 193-195	https://www.bbc.co.uk/bit esize/guides/zqiy6yc/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zwwfxfr/revisi on/1	https://www.yy watch?v=hkBrw https://www.yy watch?v==EZm?
6.4.2 Atoms and nuclear radiation	-radioactive decay, types of nuclear radiation and their properties -definition and units of activity and count rate -nuclear equations -half lives -contamination and irradiation	198-201	https://www.bbc.co.uk/bit esize/guides/zxbnh39/revis ion/1 https://www.bbc.co.uk/bit esize/guides/zp4vfcw/revisi on/1	https://www.y watch?v=F_Y1 https://www.y watch?v=nW0 https://www.y watch?v=wj9B https://www.y watch?v=dou

	CGP Revision Guide Pages
6.2.3 Domestic uses and safety	188
6.3.3 Particle Model and Pressure	Bottom half of pg 193
6.4.1 Atoms and Isotopes	

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1.1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
per 2	4.5.3 Hormonal Control in Humans	-definition of 'hormone' function of the tissues and organs of the endocrine system -identifying position of glands, and the hormones secreted from them -hormones involved in control of blood glucose concentration -Type 1 and Type 2 diabetes	61-62	https://www.bbc.co.uk/bit esize/guides/zq4mk2p/revi sion/1 (1 to 5)	https://www.youtube.com/ watch?v=c6olhi88KZs https://www.youtube.com/ watch?v=77oyUdNZ054
iology Pa	4.6.1 Reproduction	-describe the structure of DNA -define 'genome' -structure of a chromosome -definition of key inheritance terms e.g. heterozygous, recessive allele, phenotype -construct punnett squares -determine probability -inherited disorders -make informed judgements about the economic, social and ethical issues concerning embryo screening,	66, 70-72	https://www.bbc.co.uk/bit esize/guides/zycmk2p/revis ion/3 https://www.bbc.co.uk/bit esize/guides/zcdfmsg/revisi on/1	https://www.youtube.com/ watch?v=wv1TQXBQ6wQ https://www.youtube.com/ watch?v=zNEtVaNQ0s8 https://www.youtube.com/ watch?v=mvWySlbU0HA https://www.youtube.com/ watch?v=SYPwWHszLDo
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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.7.1 Adaptations, interdependence and competition	-Describe the different levels of organisation in an ecosystem -Describe the importance of interdependence and competition in a community. -Identify biotic and abiotic factors -Suggest the factors for which organisms are competing in a given habitat	83-84	https://www.bbc.co.uk/bit esize/guides/z86gpbk/revis ion/1 (1 to 7)	https://www.youtube watch?v=XVD5izWXn https://www.youtube watch?v=0mjafH5pVI
4.7.2 Organisation of an ecosystem	-interpret food chains and webs -identify producers, consumers, predators and prey from food chains and webs -describe the carbon and water cycles	86, 89-90	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/1	https://www.youtub watch?v=dRFQ8rZCK https://www.youtub watch?v=urzpnjwazV
Required Practical 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	-Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem. -Understand the terms mean, mode and median -Calculate arithmetic means	87-88	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/3	https://www.youtub watch?v=2MW6nwf9 https://www.youtub watch?v=RhMOCxXcl https://www.youtub watch?v=yLHz2Ea10N 2s

Spec point	CGP Revision Guido Pago
4.5.2 The human nervous system	
4.5.2 The human her vous system	
4.5.3.5 Hormones in human reproduction	03-05
	65
4.6.1.1 Sexual and asexual reproduction	67
4.6.1.2 Meiosis	68
4.6.1.6 Sex Determination	69
4.6.2.1 Variation	73
4.6.2.2 Evolution	74
4.6.2.3 Selective Breeding	77
4.6.3.3 Extinction	
4.6.3.4 Resistant Bacteria	75-76
4.7.1.4 Adaptations	85
4.7.3.1 Biodiversity	91
4.7.3.3 Land Use	93
4.7.3.4 Deforestation	93
4.7.3.5 Global Warming	92
4.7.3.6 Maintaining Biodiversity	94



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ЦЦ. 1	All other spec may still be as completely igr	ification points from C2, other t ssessed in multiple choice quest nored in your revision	hose on the tions/linked 1	<u>next slide</u> that a to a previous ar	are not e nswer, so	explicitly omitted, a cannot be
2	Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
, Paper	5.7.1 Carbon compounds as fuels and feedstock	-describe crude oil as a mixture of different length hydrocarbon -define the term hydrocarbon -identify the first 4 alkanes from their chemical formula and name them -Describe the trend in properties as hydrocarbon chain length increases -Describe and explain the process of fractional distillation -describe the process of cracking -describe the use of alkenes	146-149	https://www.bbc.d esize/guides/zxd4 on/1	<u>co.uk/bit</u> y4j/revisi	https://www.youtube.com/ watch?v=CX2IYWggEBc https://www.youtube.com/ watch?v=3I7yCkSXPos https://www.youtube.com/ watch?v=7AWwjKbRa_o
istry	5.8.1 Purity, formulations and chromatography	-Define the term pure substance in chemistry -Use melting and boiling point data to identify pure and impure substances -Define the term formulation and give examples	150	https://www.bbc.r esize/guides/zp2w sion/1	<u>co.uk/bit</u> vrwx/revi	https://www.youtube.com/ watch?v=3oJxWwcnfJY
Chem	Required Practical 12: investigate how paper chromatography can be used to separate and tell the difference between coloured substances.	-Describe the properties of the mixtures that chromatography can be used to separate -Describe and explain the experimental process of chromatography -Explain how substances are separated using chromatography -Interpret chromatograms + -Calculate Rf values	151-152	https://www.bbc. esize/guides/zp2w sion/3	<u>co.uk/bit</u> vrwx/revi	https://www.youtube.com/ watch?v=TdI57SQ6GAQ https://www.youtube.com/ watch?v=pnTGNAfu6GE
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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
5.9.1 The composition and evolution of the Earth's Atmosphere	-describe the composition of the current atmosphere -describe the composition of the early atmosphere and explain theories of how the early atmosphere formed -explain how the early atmosphere changed to that of the present atmosphere	155	https://www.bbc.co.uk/bit esize/guides/z9pk3k7/revisi on/1	https://www.youtub watch?v=t1Z3GINIdL https://www.youtub watch?v=I0h3M0P
5.9.3 Common atmospheric pollutants and their sources	-State the atmospheric pollutants released into the atmosphere from the complete and incomplete combustion of fossil fuels -Describe the negative impacts of these pollutants on health and the environment	158	https://www.bbc.co.uk/bit esize/guides/zq3797h/revis ion/1	https://www.youtub watch?v=yLp6LOgPH
5.10.1 Using the Earth's resources and obtaining potable water	-Describe the renewable and non- renewable resources that we get form the Earth and its atmosphere -Define the term potable water -Describe how potable water can be produced. -Describe the differences in the treatment of waste water, salt water and ground water	159, 163-165	https://www.bbc.co.uk/bit esize/guides/zswfxfr/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zg6cfcw/revisi on/1	https://www.youtub watch?v=-XczTGavT2 https://www.youtub watch?v=n7pYRQs20

Ц	These specification points will not be asses	Exam date: 20th June sed on this paper.
1	Spec point	CGP Revision Guide Pages
er 2	5.9.2 Carbon dioxide and methane as greenhouse gases	156-157
Раре		
Chemistry		

All other spe still be asse ignored in y	ecification points from P2, other the ssed in multiple choice questions/lin our revision	ose on the <u>ne</u> nked to a pre	<u>xt slide</u> that are not exp vious answer, so cannot	licitly omitted, n t be completely
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
6.5.1 Forces and their interactions	-Describe the difference between scalar and vector quantities and give examples give examples of contact and non-contact forces -Describe the relationship between mass, weight and gravitational field strength -Use an equation to calculate weight -Calculate the resultant force acting on an object -use free body diagrams to describe qualitatively examples where several forces lead to a resultant force on an object, including balanced forces when the resultant force is zero	203-205	https://www.bbc.co.uk/bit esize/guides/zskn2nb/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zcxcfcw/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z232k2p/revis ion/1	https://www.youtub watch?v=P1ISWWUH https://www.youtub watch?v=XXK8N23nx https://www.youtub watch?v=W2aBVbcH https://www.youtub watch?v=PL&ATKipo
6.5.4.1: Describing motion along a line	Describe the difference between distance and displacement Use an equation to calculate speed -describe the difference between speed and velocity -Interpret distance-time graphs and velocity-time graphs -Use an equation to calculate acceleration Describe how an object reaches terminal velocity	208-211	https://www.bbc.co.uk/bit esize/guides/z2wy6yc/revis ion/1	https://www.youtu watch?v=QaU9jMH https://www.youtu watch?v=M_OFRIX8 https://www.youtu watch?v=DkCw2C=D https://www.youtu watch?v=b0kWyoutu https://www.youtu watch?v=Kzx8G8TI!

All other spe still be asse ignored in y	ecification points from P2, other th ssed in multiple choice questions/li our revision	ose on the <u>ne</u> inked to a pre	ext slide that ar evious answer,	e not ex so canno	plicitly omitted, may bt be completely
Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
6.5.4.2 Force, accelerations and Newton's Laws of motion	-Describe Newton's first law of motion -Describe Newton's second law of motion and use an equation to calculate the force required to make an object with a certain mass accelerate at a certain speed -Describe Newton's third law of motion	212-213	https://www.bbc. esize/guides/zgv7 on/1	<u>co.uk/bit</u> 97h/revisi	https://www.youtube.com, watch?v=i5PtaCJJFjw https://www.youtube.com, watch?v=DpQ_ikFKru0
i. 5.4.3: orces and oraking	-Describe the stopping distance of a car -Define thinking distance -Describe factors that affect a driver's reaction time -evaluate measurements from methods to measure the different reaction times -Define braking distance -Describe factors that affect a car's braking distance -Excplain the dangers caused by large decelerations	215-217	https://www.bbc. esize/guides/zgv7 on/Z	<u>co.uk/bit</u> 97h/revisi	https://www.youtube.com/ watch?v=drMKdcMq3o0
i. 6.2 Electro- nagnetic Naves	-Describe the order of the electromagnetic spectrum -Describe the properties of the different parts of the EM spectrum -Describe the uses of the different parts of the EM spectrum -Describe the hazards associated with the different parts of the EM spectrum - Describe how changes in atoms and the nuclei of atoms can result in EM waves being generated	223-225, 228	https://www.bbc. esize/guides/z3yq on/3	<u>co.uk/bit</u> 4qt/revisi	https://www.youtube.com/ watch?v=u5vkY V1V1A&t=3 § https://www.youtube.com/ watch?v=L0ivb= acqU&list=RD1Vu5vkY V1V3 A&index=2

•	revision	inited to a pr	evious answer, so canno	ot be completely
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Required Practical 21 investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.	-identify dependent, independent and variables -Plan a method to ensure valid results are collected -Draw conclusions from data	226-227	https://www.bbc.co.uk/bit esize/guides/ztpm7p3/revis ion/1	https://www.youtub watch?v=LFwio38EK
6.7.1: Permanent and induced magnetism, magnetic forces and fields	-Describe the difference between a permanent and an induced magnet -Describe the attraction and repulsion between unlike and like poles for permanent magnets. -Define the 'magnetic field'. -Describe the properties of the magnetic field of a magnet -Describe how to plot the magnetic field of a magnet using a compass -Draw the magnetic field pattern of a bar magnet -Explain how a compass behaves when not in the magnetic field of a magnet	229	https://www.bbc.co.uk/bit esize/guides/zpt9v9g/revisi on/1	https://www.youtub watch?v=sRyy7-jEu3
6.7.2 The motor effect	-Describe how an electromagnet is made -Describe how to change the strength of the electromagnet	230	https://www.bbc.co.uk/bit esize/guides/zg43y4j/revisi on/1 (just page 1)	https://www.youtuk watch?v=79_SF5AZt

	These specification points will not	be assessed on this paper.	Exam date: 23 rd June
	Spec point	CGP Revision	Guide Pages
2 -	6.5.3 Forces and elasticity	206-207	
Paper			
Physics			

AQA GCSE Combined Science Trilogy: Higher

Advance Information of Assessed Content 2022

Link to specification: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF Link to advance information document: https://filestore.aqa.org.uk/content/summer-2022/AQA-8464-AI-22.PDF Link to revised Physics equation sheet: https://filestore.aqa.org.uk/resources/science/AQA-8464-8465-ES-INS.PDF

These specific All other speci may still be as completely ign	These specification points will be the major focus of this paper. Exam date: 17 th May All other specification points from B1, other those on the next slide that are not explicitly omitted, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision				
Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
4.1.2 Cell Division 4.2.2 Animal tissues, organs and organ systems	-How DNA is arranged as chromosomes -Series of stages in the cell cycles inc. mitosis -Definition and uses of stem cells - Functions of tissues and organs in the digestive system -Digestive enzymes -Functions of tissues and organs in the circulatory system -Pathway of blood through the heart -adaptations of components of the blood -risk factors of non-communicable diseases -Explain the cause of CHD -Explaute the advantages and disadvantages of treating cardiovascular diseases by drugs,	24 - 38	https://www.bbc. esize/guides/z2km sion/2 https://www.bbc. esize/guides/z2km sion/3 https://www.bbc. esize/guides/z89m sion/1 https://www.bbc. esize/guides/z80m on/1	co.uk/bit Ik2p/revi Ik2p/revi Ik2p/revi co.uk/bit Ik2p/revi Ik2p/revi Ik2p/revi	https://www.youtube.com/ watch?v=RHyZVmbiA78 https://www.youtube.com/ watch?v=Kh27ey/xvYM&t=2 4s https://www.youtube.com/ watch?v=4ui4oSHHnzA https://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ watch?v=VLK2wANjQm0 bitps://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ watch?v=VLK2wANjQm0 bitps://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ watch?v=VLK2wANjQm0 bitps://www.youtube.com/ watch?v=VLK2wANjQm0 https://www.youtube.com/ youtube youtube https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ youtube https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.com/ https://www.youtube.
Required practical 3: test for carbohydrates, lipdis and proteins	-Reagent and positive result for carbohydrates, proteins and lipids	29	https://www.bbc.r esize/guides/z89m sion/3	<u>co.uk/bit</u> hk2p/revi	https://www.youtube.com/ watch?v=SqWTJWOBww4
L]		1	Со	ntinue	d on next slide

cannot be co	mpletely ignored in your revisio	oice questior n	ns/linked to a previous a	answer, so
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Required Practical 4 investigate the effect of pH on the rate of reaction of amylase enzyme.	-action of enzymes -describe and explain the effect of extreme pH on rate of enzymes -testing for starch -identify independent, dependent, control variables -How to measure the dependent variable -method -analysing results	25-27	Required practical activity - Animal organisation - digestion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize	GCSE Science Revision Biology "Required Practi S: Effect of pH on Amyla – YouTube Enzymes - GCSE Science Required Practical – YouTube
4.4.1 Photosynthesis	-photosynthesis equation -factors affecting rate of photosynthesis -explain graphs of photosynthesis rate involving 2/3 factors and decide which is the limiting factor. -understand and use inverse proportion – the inverse square law and light intensity -explain the important of limiting factors in enhancing the conditions in greenhouses to gain the maximum rate of photosynthesis while still maintaining profit.	50-53	https://www.bbc.co.uk/bit esize/guides/zs4mk2p/revis ion/1	https://www.youtube.cc watch?v=rAJGnS_ktk4 GCSE Science Revision Biology "Limiting Factors YouTube The Rate of Photosynthe & The Inverse Square Lay YouTube
Required Practical 5: effect of light intensity on rate of photosynthesis	-independent, dependent, control variables -How to measure the dependent variable -method -analysing results	52	https://www.bbc.co.uk/bit esize/guides/zs4mk2p/revis ion/5	https://www.youtube.c watch?v=cBCKedXdFeE

Spec point	CGP Revision Guide Pages
4.1.1.5 Microscopy	12-13
4.1.3 Transport in cells	17-19
4.2.3 Plant tissues, organs and systems	39-41
4.3.1.2 Viral Diseases	44
4.3.1.4 Fungal Diseases	44
4.3.1.5 Protist Diseases	44
4.3.1.6 Human Defence Systems	46-47
4.4.1.3 Uses of Glucose from Photosynthesis	Middle section pg 50
4.4.2.2 Response to exercise	56

	These spe	ecification points will be the major f	ocus of this p	paper. Exam	date: 27 th May			
Ŧ	All other specification points from C1, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision							
1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube			
Paper 1	5.2.2 How bonding and structure are related to the properties of a substance	-interpreting melting and boiling point data to determine state at a certain temp -link energy needed to change state to strength of forces between particles -state symbols -describe & explain properties of ionic compounds -describe & explain properties of simple covalent molecules -describe & explain properties of polymers -describe & explain properties of metals and alloys	114, 116- 117, 119-121	https://www.bbc.co.uk/bit esize/topics/z33rrwx	https://www.youtube.com/ watch?v=leVxy?cj2MU https://www.youtube.com/ watch?v=DECGNyC-x_s https://www.youtube.com/ watch?v=EP0zfm_FVqc https://www.youtube.com/ watch?v=A-wTpLPICd0			
Chemistry	5.3.2 Use of amount of substance in relation to masses of pure substances	-calculating relative formula mass -calculating the number of moles in a given mass of a substance, calculating the mass of a certain no. of moles of a substance -Avogadro's constant – the number of particles in 1 mole of every substance -calculate the masses of reactants and products from the balanced symbol equation and the mass of a given reactant or product. -using molar ratios to balance equations -identifying limiting reactants and explaining the effect on yield of products -define concentration of a solution -calculate the concentration of a solution, or the mass of a solute dissolved in a given volume to create a solution of given concentration	123-124, 126-128	https://www.bbc.co.uk/bit esize/topics/zsnyy4j	https://www.youtube.com/ watch?v=q49NwlrjaFw https://www.youtube.com/ watch?v=TV6n5MFH6IU https://www.youtube.com/ watch?v=TV6n5MFH6IU https://www.youtube.com/ watch?v=Muz0mFhiE8o https://www.youtube.com/ watch?v=Muz0mFhiE8o https://www.youtube.com/ watch?v=3G3KQIyoZDI			

Т	These specification points will be the major focus of this paper. Exam date: 27 th May All other specification points from C1, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision Exam date: 27 th May						
•	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube		
Paper 1	5.4.1 The Reactivity of Metals	-Metals + oxygen -Reduction and oxidation in terms of oxygen -reduction and oxidation in terms of electrons -identify in a given reaction, symbol equation or half equation which species are oxidised and which are reduced -The Reactivity Series - Displacement reactions - Extraction of metals by reduction	132-134	https://www.bbc.co.uk/bite size/guides/zy7dgdm/revisi on/1	https://www.youtube.com/ watch?v=Lk1V0buHEFs https://www.youtube.com/ watch?v=gnbuTl2aril https://www.youtube.com/ watch?v=2l5Lm7BMtpo https://www.youtube.com/ watch?v=MXTSels6e2Y		
hemistry	5.4.2 Reactions of Acids	-Naming Salts -products of the reactions of acids and metals -explain the reactions of metals and acids in terms of loss and gain of electrons -produces of the reactions of acids and alkalis and insoluble bases -products of the reactions of acids and metal carbonates -pH scale and neutralisation -difference between strong and weak acids	131, 134 129-130	https://www.bbc.co.uk/bite size/guides/ztv2dxs/revisio n/1	https://www.youtube.com/ watch?v=ofw6oHSYGFI GCSE Science Revision Chemistry "Acids Reacting with Metals 2" - YouTube https://www.youtube.com/ watch?v=QISsle_ISO8 d on next slide		
υ	5.4.2.3 and Required Practical 8: preparation of a pure, dry sample of soluble salts	-method of producing solid salt crystals from insoluble oxide or carbonate and acids -identifying errors in methods and reagents	131	https://www.bbc.co.uk/bite size/guides/ztv2dxs/revisio n/5	https://www.youtube.com/ watch?v=9GH95172Js8&t=1 6s GCSE Science Revision Chemistry "Strong and Weak Acids" – YouTube		

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т	All other specification points from C1, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision						
1	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube		
/ Paper 1	5.4.3 Electrolysis	-The process of electrolysis -identifying oxidation and reduction in terms of electrons -writing half equations for oxidation/reduction reactions occurring at each electrode -Electrolysis of molten ionic compounds -Electrolysis of aluminium oxide -Electrolysis of aqueous solutions, predicting products formed	135-6	https://www.bbc.co.uk/bit esize/guides/z9h9v9q/revis ion/1	https://www.youtube.com/ watch?v=AhTRiL6xjBA&t=2s https://www.youtube.com/ watch?v=ilNOpROacf0 https://www.youtube.com/ watch?v=YcyMEIBE2AY https://www.youtube.com/ watch?v=SWJC_VI4roA https://www.youtube.com/		
mistry	Required Practical 9: : investigate what happens when aqueous solutions are electrolysed using inert electrodes.	-Developing a hypothesis -Planning an investigation	136	https://www.bbc.co.uk/bit esize/guides/z9h9v9q/revis ion/3	watch?v=uvblk2NKSy00 https://www.youtube.com/ watch?v=ukbtTTG1Kew		
Che				Contin	ued on next slide		

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1	Spec point	SO cannot be completely igno	CGP revision guide pages	Bitesize	YouTube	
nistry Paper 1	5.5.1 Exothermic and endothermic reactions	-describe the law of the conservation of energy -define exo and endthermic reactions and describe their features -give examples of exo and endothermic reactions -define activation energy -represent exo and endothermic reactions with reaction profiles -describe bond breaking in the reactants as an endothermic process -describe bond formation in the products as an exothermic process -calculate the energy transferred in chemical reactions using bond energies supplied -Use energy change values to identify if a reaction is exo/endothermic	138-140	https://www.bbc.co.uk/bit esize/guides/z2b2k2p/revis ion/1	https://www.youtube.com/ watch?v=4HS6D0hTzdg https://www.youtube.com/ watch?v=dstRL5x80Sk https://www.youtube.com/ watch?v=it0HGXhxD-s https://www.youtube.com/ watch?v=eExCBkpdjB4 https://www.youtube.com/ watch?v=PdValXAVUOc	
Cher	Required Practical 10: investigate the variables that affect temperature changes in reacting solutions such as, eg acid plus metals, carbonates, neutralisations, displacement of metals	-Identifying independent, dependent, control variables -Analysing results -identifying exo and endothermic reactions from experimental results	139	https://www.bbc.co.uk/bit esize/guides/z2b2k2p/revis ion/2	https://www.youtube.com/ watch?v=Bz0C9mmF2tw	



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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTub
Required Practical 16: construct appropriate circuits to investigate the I– V characteristics of circuit elements, inc. a filament lamp, diode and a resistor at constant temp.	-placing ammeter and voltmeter in the correct place in a circuit to measure the current through and potential difference across a component -Plotting graphs -Describing and explaining patterns shown in graphed data	180-181	https://www.bbc.co.uk/bit esize/guides/zgvq4qt/revisi on/5	https://www.you watch?v=A1SyKvo 295
6.3.1 Changes of state and the particle model	-Define and calculate the density of a substance or object -recognise/draw simple diagrams to model the difference between solids, liquids and gases -explain the different states of matter in terms of the arrangement of atoms or molecules. -describe how, when substances change state mass is conserved. -Describe changes of state as physical changes	191-192	https://www.bbc.co.uk/bit esize/guides/zqiy6yc/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zwwfxfr/revisi on/1	https://www.you watch?v=hkBrw2 https://www.you watch?v=-EZmX\



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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube		
6.4.2 Atoms and nuclear radiation	-radioactive decay, types of nuclear radiation and their properties -definition and units of activity and count rate -nuclear equations -half lives -calculate the net decline, expressed as a ratio, in a radioactive emission after a given number of half-lives -contamination and irradiation	196-199	https://www.bbc.co.uk/bit esize/guides/zxbnh39/revis ion/1 https://www.bbc.co.uk/bit esize/guides/zp4vfcw/revisi on/1	https://www.youtube.com/ watch?v=F_Y1-JieCrg https://www.youtube.com/ watch?v=nW0S1C6wVrg https://www.youtube.com/ watch?v=wj9BzGFao8k https://www.youtube.com/ watch?v=teGu0VAPIOo		

Spec point Concepts CGP revision guide pages Bitesize YouTube 4.5.3 Hormonal Control in Humans -definition of 'hormone' function of the tissues and organs of the endocrine system -identifying position of glands, and the hormones secreted from them -bormones involved in control of blood glucose concentration -Type 1 and Type 2 diabetes -explain how glucagon interacts with insulin in a negative feedback cycle to control blood glucose (sugar) levels in the body. 62-67 https://www.bbc.co.uk/bit esize/guides/zq4mk2p/revi sion/1 https://www.voutube.com/ watch?v=CG0hiB8N25 -explain how glucagon interacts with insulin in a negative feedback cycle to control blood glucose (sugar) levels in the body. 62-67 gCSE Science Revision Biology "The Menstrual Cycle" - vouTube GCSE Science Revision Biology "The Menstrual Cycle" - vouTube -explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle -explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle -explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle -explain the order of hormones in modern reproductive technologies to treat infertility. GCSE Science Revision Biology "Negative Feedback" - YouTube	Т	These specific All other spec may still be a completely ign	ation points will be the major f ification points from B2, other t ssessed in multiple choice ques nored in your revision	focus of this p those on the tions/linked	paper. Exam <u>next slide</u> that are not to a previous answer, s	date: 15 th June explicitly omitted, o cannot be
4.5.3 Hormonal Control in Humans -definition of 'hormone' function of the tissues and organs of identifying position of glands, and the hormones involved in control of blood glucose concentration 62-67 https://www.bbc.co.uk/bit esize/guides/zgdmk2p/rev sion/1 https://www.youtube.com/ watch?v=rCoulhi88KZs 1000000000000000000000000000000000000		Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
	Biology Paper 2	4.5.3 Hormonal Control in Humans	-definition of 'hormone' function of the tissues and organs of the endocrine system -identifying position of glands, and the hormones secreted from them -hormones involved in control of blood glucose concentration -Type 1 and Type 2 diabetes -explain how glucagon interacts with insulin in a negative feedback cycle to control blood glucose (sugar) levels in the body. -describe the roles of hormones in human reproduction, including the menstrual cycle -explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle -explain the roles of thyroxine and adrenaline in the body. Thyroxine levels are controlled by negative feedback	62-67	https://www.bbc.co.uk/bit esize/guides/zq4mk2p/revj sion/1	https://www.youtube.com/ watch?v=c6olhi88KZs https://www.youtube.com/ watch?v=72oyUdN2054 GCSE Biology Hormones in human reproduction (AQA 9-1) – YouTube GCSE Science Revision Biology "The Menstrual Cycle" – YouTube GCSE Science Revision Biology "Hormones to Treat infertility" – YouTube GCSE Science Revision Biology "Negative Feedback" – YouTube

These specifica All other specif may still be as completely ign	ation points will be the major f fication points from B2, other t sessed in multiple choice ques nored in your revision	ocus of this p hose on the tions/linked	next slide_that are not of to a previous answer, so	date: 15 th June explicitly omitted, o cannot be
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.7.2 Organisation of an ecosystem	-interpret food chains and webs -identify producers, consumers, predators and prey from food chains and webs -describe the carbon and water cycles	86, 89-90	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/1	https://www.youtube.com watch?v=dRFQ8rZCK6Q https://www.youtube.com watch?v=urzpnjwazV0
4.7.3 Biodiversity and the effect of human interaction on an ecosystem	-Define biodiversity -Describe ways in which pollution can occur, and the impacts of this pollution on biodiversity -Describe ways to manage this pollution -describe some of the biological consequences of global warming. -Describe the things that scientists have introduced to reduce the negative effects of humans on ecosystems and biodiversity.	91-92, 94	Biodiversity and interdependance - Biodiversity and the effect of human interaction on ecosystems - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize	GCSE Science Revision Biology "Biodiversity" - YouTube GCSE Science Revision Biology "Maintaining Biodiversity"- YouTube GCSE Biology - How Human Waste Reduces Biodiversity: Explained #63 - YouTube GCSE Science Revision Biology "Global Warming" - YouTube
Required Practical 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	-Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem. -Understand the terms mean, mode and median -Calculate arithmetic means	87-88	https://www.bbc.co.uk/bit esize/guides/zqskv9q/revisi on/3	https://www.youtube.com watch?v=2NWGow/BOXM https://www.youtube.com watch?v=RhMOCxXcDrQ https://www.youtube.com watch?v=YLHzZEa10Mg&t 25

Spec point	CGP Revision Guide Page
4.5.2 The human nervous system	59-61
4.5.3.4 Contraception	Bottom half of pg 65
4.6.1.1 Sexual and asexual reproduction	69
4.6.1.3 DNA and the genome	68
4.6.1.4 Genetic Inheritance	72-73
4.6.1.5 Inherited Disorders	74
4.6.1.6 Sex Determination	71
4.6.2 Variation and Evolution	75-77
4.6.3. The development of understanding of genetics and evolution	78-80
4.7.1.4 Adaptations	85
4.7.3.3 Land Use	93
4.7.3.4 Deforestation	93



H -	These specification points will be the major focus of this paper. Exam date: 20th June All other specification points from C2, other those on the <u>next slide</u> that are not explicitly omitted, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision							
2	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube			
emistry Paper	5.6.2 Reversible reactions and dynamic equilibrium	-Identify and give examples of reversible reactions -Apply the conservation of energy to reversible reactions -Define dynamic equilibrium -Describe Le Chatelier's principle -Describe and explain the effect of changing the following conditions on equilibrium; concentration, temperature, pressure	147-148	https://www.bbc.co.uk/bit esize/guides/z32bpbk/revis ion/1	https://www.youtube.com/ watch?v=66qcNVJFy6E GCSE Science Revision Chemistry "Concentration and Reversible Reactions" – YouTube GCSE Science Revision Chemistry "Pressure and Reversible Reactions" – YouTube GCSE Science Revision Chemistry "Temperature and reversible reactions" – YouTube GCSE Chemistry - Le Chatelier's Principle #42 (Higher Tier) – YouTube			
Che				Continue	d on next slide			



H -	These specification points will be the major focus of this paper. Exam date: 20th June All other specification points from C2, other those on the <u>next slide</u> that are not explicitly omitted, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision							
2	Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube			
aper	5.9.1 The composition and evolution of the Earth's Atmosphere	-describe the composition of the current atmosphere -describe the composition of the early atmosphere and explain theories of how the early atmosphere formed -explain how the early atmosphere changed to that of the present atmosphere	157	https://www.bbc.co.uk/bit esize/guides/z9pk3k7/revisi on/1	https://www.youtube.com/ watch?v=t123GINIdLA https://www.youtube.com/ watch?v=I0h -3M0Pso			
emistry P	5.10.1 Using the Earth's resources and obtaining potable water	-Describe the renewable and non- renewable resources that we get form the Earth and its atmosphere -Define the term potable water -Describe how potable water can be produced. -Describe the differences in the treatment of waste water, salt water and ground water -Describe and evaluate alternative methods of extracting metals e.g. phytomining and bioleaching	161-162, 164-165	https://www.bbc.co.uk/bit esize/guides/zswfxfr/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zg6cfcw/revisi on/1 Biological methods of metal extraction - Higher - Ways of reducing the use of resources - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize	https://www.youtube.com/ watch?v=:XczTGavTZU https://www.youtube.com/ watch?v=n?pYRQs20bi https://www.youtube.com/ watch?v=b5RVPauf4oM			
Ch								







ignored in your revision				
Spec point	Concepts	guide pages	bitesize	fourub
6.5.4.2 Force, accelerations and Newton's Laws of motion	-Describe Newton's first law of motion -Describe Newton's second law of motion and use an equation to calculate the force required to make an object with a certain mass accelerate at a certain speed -Explain that inertial mass is a measure of how difficult it is to change the velocity of an object -Describe Newton's third law of motion	211 - 213	https://www.bbc.co.uk/bit esize/guides/zgv797h/revisi on/1	https://www.yout watch?v=i5PtaCJJI https://www.yout watch?v=DpQ_ikF
6.6.5 Momentum	Use an equation to calculate the momentum of an object from its mass and velocity -Describe the law of the conservation of momentum -Explain examples of momentum in an event, such as a collision	216	What is momentum? - Higher - Momentum - Higher - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize	GCSE Science Rev Physics "Moment YouTube GCSE Physics - Mc Momentum Princ YouTube GCSE Physics - Mc Part 2 of 2 - Chan Momentum #60 -



These specification points will be the major focus of this paper. Exam date: 23rd June All other specification points from P2, other those on the <u>next slide</u> that are not explicitly omitted, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision						
Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube	
Required Practical 21 investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of the surface.	-Identify dependent, independent and variables -Plan a method to ensure valid results are collected -Draw conclusions from data	225	https://www.bbc.c esize/guides/ztpm ion/1	<u>o.uk/bit</u> 7p3/revis	https://www.youtube.cor watch?v=LFwio38EK9s	
7.2 The motor fect	-Describe how an electromagnet is made -Describe how to change the strength of the electromagnet Show that Fleming's left-hand rule represents the relative orientation of the force, the current in the conductor and the magnetic field. -Describe the factors that affect the size of the force on the conductor. -Use an equation to calculate the force acting on the conductor from the magnetic flux density, current and length of the wire -Explain how the force on a conductor in a magnetic field causes the rotation of the coil in an electric motor	228-230	https://www.bbc.c esize/guides/zg43y on/1	<u>o.uk/bit</u> /4j/revisi	https://www.youtube.com watch?v=79_SF5AZtzo GCSE Science Revision Physics "The Motor Effect = YouTube GCSE Physics - Motor Effect #79 – YouTube GCSE Physics - How the Electric Motor Works #80 YouTube GCSE Science Revision Physics "The Electric Motor - YouTube	

Spec point	CGP Revision Guide Pages
6.5.3 Forces and elasticity	205-206
6.5.4.3 Forces and braking	214-215
6.7.1 Permanent and induced magnetism, magnetic forces and fields	227

GCSE Geography Summer 2022 Exam Changes

PAPER 1 PHYSICAL GEOGRAPHY UNITS

1 Hour 30 minutes 88 marks 35% of grade

NO CHANGES

Section A Question 1 – Hazards

Answer all the questions

Section B Question 2- Living World

Answer all the questions

We do <u>HOT DESERTS</u> not Cold environments

Section C- UK Landscapes

Answer:

Question 3 Coasts

Question 4 Rivers

DO NOT ANSWER QUESTION 5 GLACIATION PAPER 2 HUMAN GEOGRAPHY UNITS

1 Hour 15 minutes 63 marks 35% of grade

CHANGES

Section A Question 1 – Urban Issues

Answer all Questions

SECTION B QUESTION 2 DO NOT ANSWER

Section C- Resource Management

Answer:

Question 3 Resource Management

Question 4 Food

DO NOT ANSWER QUESTION 5

& 6

PAPER 3 GEOGRAPHICAL APPLICATIONS

1 Hour 56 marks 30% of grade

CHANGES

Questions already removed

NO QUESTIONS LINKED TO OUR FIELDWORK WILL BE ASKED BUT GENERAL FIELDWORK QUESTIONS WILL BE ASKED.

ANSWER ALL QUESTIONS ON THE PAPER

SECTION A AND B IS LINKED TO THE PRE RELEASE WE GET ON $22^{\tt ND}$ MARCH 2022

AQA GCSE Physics: Higher

Advance Information of Assessed Content 2022

Link to specification: https://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF

Link to advance information document: <u>https://filestore.aqa.org.uk/content/summer-2022/AQA-8463-AI-</u>22.PDF

Link to revised Physics equation sheet: https://filestore.aqa.org.uk/resources/physics/AQA-8463-ES-INS.PDF

All other specificat still be assessed in ignored in your rev	ion points from P1, other tha multiple choice questions/lin vision	n those on t nked to a pre	he <u>next slide</u> that are ex vious answer, so cannot	plicitly omitted t be completely
Spec point	Concepts	CGP revision guide pages	Bitesize	YouTub
4.1.1 Energy changes in a system, and the ways energy is stored before and after such changes	-identifying the energy changes in systems -Calculate, using equations, the amount of energy associated with a moving object, a stretched spring and an object raised above ground level. -Calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes -Calculate Power	11-14	https://www.bbc.co.uk/bit esize/guides/zskp7p3/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z8pk3k7/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zy8g3k7/revisi on/1	https://www.youl watch?v=JGwCDC https://www.youl watch?v=zy9eWz https://www.youl watch?v=GyToth https://www.youl watch?v=63OTIdh https://www.youl
4.1.2 Conservation and dissipation of energy	Describe the law of the conservation of energy -Describe, and give examples of how energy is dissipated, or 'wasted' -Explain ways of reducing unwanted energy transfers -Describe thermal conductivity in relation to the rate of energy transfer by conduction, through a material -Calculate the efficiency of a device, process or system	15-17	https://www.bbc.co.uk/bit esize/guides/z8hsrwx/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zp8jtv4/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z2gitv4/revisi on/1	https://www.you watch?v=H6D_Vi https://www.you watch?v=NI5jaeB https://www.you watch?v=43XCqA https://www.you watch?v=GTdgl-0



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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
Required Practical 5: determine the densities of regular and irregular solid objects and liquids.	-Method to determine density of regular shaped objects -Method to determine density of irregular shaped objects -Measurements needed to determine mass and volume of objects -Equipment and apparatus	P38	https://www.bbc.co.uk/bite size/guides/zsqngdm/revisi on/1	https://www.youtube. m/watch?v=ScXOp8Zp 8 https://www.youtube. m/watch?v=Ivqu6JAba
4.3.1 Changes of state and particle model	-Define and calculate the density of a substance or object -recognise/draw simple diagrams to model the difference between solids, liquids and gases -explain the differences in density between the different states of matter in terms of the arrangement of atoms/molecules. -describe how, when substances change state mass is conserved. -Describe changes of state as physical changes	P38-39	https://www.bbc.co.uk/bite size/guides/zqiy6yc/revision / <u>1</u> https://www.bbc.co.uk/bite size/guides/zwwfxfr/revisio n/ <u>1</u>	https://www.youtube. m/watch?v=hkBrw2fG U https://www.youtube. m/watch?v=- EZmXVOSa20
4.3.2 Internal energy and energy transfers	-Define internal energy, specific heat capacity & specific latent heat -Calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes -interpret heating & cooling graphs -Use an equation that links energy transferred, mass and specific	P39-40	https://www.bbc.co.uk/bite size/guides/zcncity/revision /1	https://www.youtube. m/watch?v=4rT7-5yE4 https://www.youtube. m/watch?v=5WVT5NR A https://www.youtube. m/watch?v=x7G22DXe

Spec point	CGP Revision Guide Pages
4.2.1 Current, potential difference and resistance	P24-27
4.2.2 Series & parallel circuits	P28-30
4.2.3 Domestic uses and safety	P31
4.3.3 Particle model and pressure	P41
4.4.1 Atoms and isotopes	P43, P44 (top half on isotopes)
4.4.3 Hazards and uses of radioactive emissions and of background radiation	P47 (top half on background radiation), P48
4.4.4 Nuclear fission and fusion	P49

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTub
4.5.1 Forces and their interactions	Describe the difference between scalar and vector quantities and give examples give examples of contact and non-contact forces -Describe the relationship between mass, weight and gravitational field strength -Use an equation to calculate weight -Calculate the resultant of two forces that act in a straight line. -Use vector diagrams to illustrate the resolving of forces e.g. two components acting a tright angles to each other -Use free body diagrams to describe qualitatively examples where several forces lead to a resultant force on an object, including balanced forces when the resultant force is zero	P51-54	https://www.bbc.co.uk/bit esize/guides/zpangdm/revi sion/1 https://www.bbc.co.uk/bit esize/guides/zyxv97h/revisi on/1 https://www.bbc.co.uk/bit esize/guides/zgncity/revisio n/1	https://www.youi watch?v=P1JSWW https://www.youi watch?v=xxK8N22 https://www.youi watch?v=W2aBVI https://www.youi watch?v=PL8ATKi GCSE Physics - Very Diagrams and Res Forces #43 – YouT Resolving Forces : Drawings – YouTu
4.5.2 Work done and energy transfer	Use an equation to calculate the work done to an object -Convert between newton-metres and joules. -Work done against the frictional forces acting on an object causes a rise in the temperature of the object.	P53	https://www.bbc.co.uk/bit esize/guides/zgncjty/revisio n/3	https://www.you watch?v=JHEmP2



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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.5.6.1: Describing motion along a line	Describe the difference between distance and displacement -Use an equation to calculate speed -describe the difference between speed and velocity -explain that motion in a circle involves constant speed but changing velocity. -interpret distance-time graphs and velocity-time graphs -Calculate speed of an accelerating object at any particular time by drawing a tangent and measuring the gradient of the distance-time graph at that time -Calculate the distance travelled /displacement of an object by calculating the area under a velocity-time graph. -Use an equation to calculate acceleration -Describe how an object reaches terminal velocity	P60-63	https://www.bbc.co.uk/bit esize/guides/zwc7pbk/revis ion/1 https://www.bbc.co.uk/bit esize/guides/zp2fcj6/revisi on/1	https://www.youtube.com/watc h?v=GaU9/MHh?gE https://www.youtube.com/watc h?v=M_OFRIX8MIM https://www.youtube.com/watc h?v=DkCw2C-DkT0 https://www.youtube.com/watc h?v=DkOVKIpetP9A https://www.youtube.com/watc h?v=Kzx8G8IT5VM https://www.youtube.com/watc h?v=YkVgB0800 https://www.youtube.com/watc h?v=Krx8vG815VM
4.5.7 Momentum	-Use an equation to calculate the momentum of an object from its mass and velocity -Describe the law of the conservation of momentum -Explain examples of momentum in an event, such as a collision -Calculate change in momentum -explain safety features with reference to the concept of rate of change of momentum.	P70-71	https://www.bbc.co.uk/bit esize/guides/zytb8mn/revis ion/1	GCSE Science Revision Physics "Momentum" – YouTube GCSE Physics - Momentum Part 1 of 2 - Conservation of Momentum Principle #59 – YouTube GCSE Physics - Momentum Part 2 of 2 - Changes in Momentum #60 – YouTube

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.6.1 Waves in air, fluids and solids	-Describe the differences between transverse and longitudinal waves and give examples -Define the property terms of waves -Use an equation to calculate a time period -Use an equation to calculate a time period -Use an equation that links wave speed, frequency and wavelength -describe a method to measure the speed of sound waves in air -describe a method to measure the speed of ripples on a water surface. -construct ray diagrams to illustrate the reflection of a wave at a surface. -describe the effects of reflection, transmission and absorption of waves at material interfaces.	P73-75; P88- 90	https://www.bbc.co.uk/bit esize/guides/zgf97p3/revisi on/1 https://www.bbc.co.uk/bit esize/guides/z9bw6yc/revis ion/1 https://www.bbc.co.uk/bit esize/guides/zw42ng8/revi sion/1	https://www.youtube.co watch?v=aCu4VRKMstA https://www.youtube.co watch?v=8K6gOST8pZk https://www.youtube.co watch?v=wO49W5IsPOs
Required practical 9: investigate the reflection of light by different types of surface and the refraction of light by different	-Identify dependent, independent and control variables -How to measure the dependent variable -Analysing results -Plotting graphs -Drawing conclusions from data	P77	https://www.bbc.co.uk/bit esize/guides/zw42ng8/revi sion/3	https://www.youtube.cr watch?v=2fN_jvf4fw8 https://www.youtube.cr watch?v=tiqiN3y1ze4

All other specification of the	All other specification points from P2, other than those on the <u>next slide</u> that are explicitly omitted, may still be assessed in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision				
Spec point	Concepts	CGP revision guide pages	Bitesize		YouTube
4.8.1 Solar system, stability of orbital motions, satellites	-Describe the structure of the universe and our solar system -Describe the life cycle of a star -explain how fusion processes lead to the formation of new elements. -describe the similarities and distinctions between the planets, their moons, and artificial satellites. -explain qualitatively how for circular orbits, the force of gravity can lead to changing velocity but unchanged speed, for a stable orbit, the radius must change if the speed changes.	P100-101	https://www.bbc. esize/guides/zt2fo n/1 https://www.bbc. esize/guides/zpxv on/1	<u>co.uk/bit</u> <u>co.uk/bit</u> <u>97h/revisi</u>	https://www.youtube.com watch?v=mndRViMovQk https://www.youtube.com watch?v=V0Y1JIVuin4 https://www.youtube.com watch?v=okMA18ppu98
4.8.2 Red shift	Explain how red-shift provides evidence for the expansion of the universe and the Big Band model -Describe the Big Bang theory -Explain that the change of each galaxy's speed with distance is evidence of an expanding universe - Explain how scientists are able to use observations to arrive at theories such as the Big Bang theory	P102	https://www.bbc. esize/guides/zstb ion/1	<u>co.uk/bit</u> 8mn/revis	https://www.youtube.com watch?v=C90D0E87TYc https://www.youtube.com watch?v=bWEtm-7cY2M

Spec point	CGP Revision Guide Pages
4.5.4 Moments, levers and gears	P57
4.6.2 Electromagnetic waves	P76, P78-85
4.6.3 Black body radiation	P86-87
4.7.1 Permanent and induced magnetism, magnetic forces and fields	P92

Spanish GCSE Summer 2022

Paper 4: Writing (only) 25%

1. Question options

For both foundation and higher writing papers, there has been an additional option for questions where you choose the question you will answer, previously 2 options, **now 3 options**. You must write about <u>one</u> <u>only</u>.

2. <u>Time</u>

Both foundation and higher writing papers have been increased in time:

Foundation tier to 1 hour 5 minutes

Higher tier to 1 hour 20 minutes

3. Advance information

The below information has been provided for the content of writing paper (**excluding** the translation section of the writing paper):

Foundation tier:

Theme 1 – Identity and culture

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

Theme 2 – Local, national, international and global areas of interest

Topic 1: Home, town, neighbourhood and region

Topic 2: Social issues

- Topic 3: Global issues
- Topic 4: Travel and tourism

Theme 3 – Current and future study and employment

Topic 1: My studies

Topic 2: Life at school/college

Topic 4: Jobs, career choices and ambitions

Higher tier:

Theme 1 – Identity and culture

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

Theme 2 – Local, national, international and global areas of interest

- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues
- Topic 4: Travel and tourism

Theme 3 – Current and future study and employment

- Topic 1: My studies
- Topic 2: Life at school/college
- Topic 3: Education post-16
- Topic 4: Jobs, career choices and ambitions

1RBO/1B PAPER 1: Area of Study 1 – Religion and Ethics Option 1B

Christianity Section 1: Christian Beliefs Content

1.1 The Trinity: the nature and significance of the Trinity as expressed in the Nicene Creed; the nature and significance of the oneness of God; the nature and significance of each of the Persons individually: including reference to Matthew 3:13–17; how this is reflected in Christian worship and belief today.

1.2 The creation of the universe and of humanity: the biblical account of creation and divergent ways in which it may be understood by Christians, including as literal and metaphorical; the role of the Word and Spirit in creation, including John 1:1–18 and Genesis 1–3; the importance of creation for Christians today.

1.3 The Incarnation: the nature and importance of the person of Jesus Christ as the incarnate Son of God; the biblical basis of this teaching, including John 1:1–18 and 1 Timothy 3:16 and its significance for Christians today.

1.7 The problem of evil/suffering and a loving and righteous God: the problems it raises for Christians about the nature of God, including reference to omnipotence and benevolence, including Psalm 103; how the problem may cause believers to question their faith or the existence of God; the nature and examples of natural suffering, moral suffering. W73059A Continue 7 ''''

Section 3: Living the Christian Life Content

3.2 The role of the sacraments in Christian life and their practice in two denominations: the role of the sacraments/ordinance as a whole; the nature and importance of the meaning and celebration of baptism and the Eucharist in at least two denominations, including reference to the 39 Articles XXV-XXXVI; divergent Christian attitudes towards the use and number of sacraments in Orthodox, Catholic and Protestant traditions.

3.3 The nature and purpose of prayer: the nature of and examples of the different types of prayer; set prayers; informal prayer and the Lord's Prayer, including Matthew 6:5–14; when each type might be used and why; divergent Christian attitudes towards the importance of each type of prayer for Christians today.

3.5 Christian religious celebrations: the nature and history of Christian festivals in the church year, including Christmas and Easter; the significance of celebrating Advent and Christmas; the significance of celebrating Holy Week and Easter, with reference to interpretations of 1 Corinthians 15:12–34.

3.8 The role and importance of the Church in the worldwide community: how and why it works for reconciliation and the problems faced by the persecuted Church; divergent Christian responses to teachings about charity, including 1 Corinthians 13 and Matthew 25:31–46; the work of Christian Aid, what it does and why.

Option 2C - Islam Section 1: Muslim Beliefs Content

1.2 The five roots of Usul ad-Din in Shi'a Islam (Tawhid (oneness of Allah); 'Adl (Divine Justice); Nubuwwah (Prophethood); Imamah (Successors to Muhammad) and Mi'ad (The Day of Judgment and the Resurrection): the nature, history and purpose of the five roots with reference to their Qur'anic basis, including Surah 112 (the oneness of Allah); the importance of these principles for different Shi'a communities today, including Sevener and Twelver.

1.3 The nature of Allah: how the characteristics of Allah are shown in the Qur'an and why they are important: Tawhid (oneness), including Surah 16: 35–36, immanence, transcendence, omnipotence, beneficence, mercy, fairness and justice, Adalat in Shi'a Islam.

1.4 Risalah: the nature and importance of prophethood for Muslims, including Surah 2: 136; what the roles of prophets teach Muslims, exemplified in the lives of Adam, Ibrahim, Isma'il, Musa, Dawud, Isa, Muhammad.

1.7 al-Qadr: the nature and importance of Predestination for Muslims; how al-Qadr and human freedom relates to the Day of Judgement, including reference to Sahih Al-Bukhari 78: 685; divergent understandings of predestination in Sunni and Shi'a Islam; the implications of belief in al-Qadr for Muslims today. W73059A Continue 23 ''''

Section 3: Living the Muslim Life Content

3.2 Shahadah as one of the Five Pillars: the nature, role and significance of Shahadah for Sunni and Shi'a Muslims, including reference to Surah 3: 17–21; why reciting Shahadah is important for Muslims, and its place in Muslim practice today.

3.3* Salah as one of the Five Pillars, including reference to Surah 15: 98–99 and 29: 45: the nature, history, significance and purpose of Salah for Sunni and Shi'a Muslims, including different ways of understanding them; how Salah is performed, including ablution, times, directions, movements and recitations, in the home and mosque and Jummah prayer.

3.4 Sawm as one of the Five Pillars: the nature, role, significance and purpose of fasting during Ramadan, including Surah 2: 183–185; those who are excused from fasting and why; the significance of the Night of Power: the nature, history and purpose of the Night of Power; why Laylat al-Qadr is important for Muslims today.

3.8 The nature, origins, activities, meaning and significance of the celebration/ commemoration of Id-ul-Adha, with reference to Surah 37: 77–111, and Id-ulFitr in Sunni Islam, with reference to their place within Shi'a Islam; and Id-ulGhadeer, with reference to Hadith and the interpretation of Surah 5: 3, and Ashura in Shi'a Islam, with reference to their place within Sunni Islam.

Paper 1 Breadth study with interpretations Option 1H: Britain transformed, 1918–97

Sections A and B will draw from the following specification sub-themes:

Themes	Content
1 A changing political and economic environment, 1918–79	 A changing political landscape: changing party fortunes, 1918–31; the National government, 1931–45; Labour government, the rise of consensus politics and political challenge, 1945–79. Economic challenges in 1918 and post-war boom, crisis and recovery, 1918–39; creating a managed economy, 1939– 51; the response to economic challenges, 1951–79.
2 Creating a welfare state, 1918–79	 Education and widening opportunities: education policy, 1918–43; the significance of the 'Butler Act' 1944, and the development of comprehensive education to 1979; the growth and social impact of university education, 1918–79.
3 Society in transition, 1918–79	 Race and immigration: immigration policies and attitudes towards ethnic minorities, 1918–39; the impact of the Second World War and new Commonwealth immigration; racial controversy and the impact of government policies on race relations and immigration, 1958–79.
4 The changing quality of life, 1918–79	 Changing living standards: the impact of boom, crisis and recovery, and the significance of regional differences, 1918–39; the effects of 'total war' and austerity, 1939–51; the growth of a consumer society, 1951–79. Popular culture and entertainment: the impact of mass popular culture, including cinema, radio and music, 1918–79; the influence of television from the 1950s and youth culture, 1955–79. Leisure and travel: the growth of spectator sports from the 1920s; increased leisure time and the development of mass tourism from the 1930s; the impact of car ownership and travel developments, 1918–79.

Section C

The historical interpretation question is a discrete topic, and questions may draw on one or more of the content bullet points, therefore no advance information is supplied for Paper 1 Section C historical interpretations.

Paper 2 Depth study Option 2H.2: The USA, 1955–92: conformity and challenge

This paper will draw from the following specification sub-topics:

Key topics	Content
1 Affluence and conformity, 1955–63	 Urbanisation and affluence: the changing nature of cities; expansion of the suburbs; highway development; growing ownership and use of cars; white collar jobs and service industries; consumerism and domestic technology. Kennedy's New Frontier: social welfare and unemployment programmes; environmentalism and expansion of the National Park system; the Peace Corps; the space programme; extent of Kennedy's domestic achievements.
2 Protest and reaction, 1963–72	 Civil rights: the significance of Malcolm X, Black Power and the Black Panthers; King's changing priorities, including the campaigns in Selma and Chicago; King's achievements and the impact of his assassination; the work of Cesar Chavez. Protest and personal freedom: student protest; counter-culture and its key features; the growth of the women's movement; the impact of sexual liberalisation; the origins of gay rights. Johnson's Great Society, 1964–68: tackling poverty and unemployment; improving housing and education; Medicare and Medicaid; civil rights laws; Johnson's achievements.
4 Republican dominance and its opponents, 1981–92	 The Religious Right and its critics: the promotion of traditional values; campaigns against abortion and homosexuality; Nancy Reagan's 'Just Say No' campaign; the growth of bitter political divisions and their significance. Cultural challenge: trends in youth culture; the impact of technology on popular culture; the growth of cable television and the influence of MTV; the impact of the AIDS crisis; controversial social issues in film and television. Social change: the changing status of ethnic minorities; the impact of black American success in politics, business, sport and popular culture; the extent of racial tolerance and integration by 1992; the impact of women in politics and the workplace; the changing status of women by 1992.

Paper 3 Themes in breadth with aspects in depth Option 33: The witch craze in Britain, Europe and North America, c1580–c1750

Section A will draw from the following specification key topic:

Key topic	Content
1 The North Berwick witches in Scotland, 1590–91 and the aftermath to 1597	 The origins of the persecution: Gilly Duncan's confession; the impact of James VI's voyage from Denmark; the extent to which Danish witch hunting influenced events in Scotland. The widening net: the case of Agnes Sampson and John Fian; the role of the king and torture; the involvement of the Earl of Bothwell; impact of the confessions, trials and executions. Reasons for the extent of persecutions in Scotland to 1597, including judicial procedures, lack of strong central control, the role of King James and significance of his <i>Daemonologie</i>.

Section B will draw from the following specification key topics:

Key topics	Content
2 The Lancashire witches of 1604–13	 The influence of social, economic and religious context of the area around Pendle in the early seventeenth century and the significance of the new witchcraft statute of 1604. The origins of the case: Alizon Device and John Law; the investigations of Roger Nowell; Old Demdike and Old Chattox and their witchcraft families; the meeting at Malkin Tower. The trial 1612: the Judges Bromley and Altham; the conduct and outcomes of the trial; impact of Thomas Potts's account.
5 Cotton Mather and the Salem witch hunt, 1692–93	 The social, economic and political context of Salem: weakened authority following the 1688 Revolution; Indian threats and economic crisis; social tensions. The influence of Cotton Mather, including <i>Memorable Providences relating to Witchcraft and Possessions</i>; instigators, including the roles of Samuel Parris, children and Tituba; the nature of the victims; the trials and executions. Reasons for the ending of the witch hunt: the roles of Cotton Mather's father and Governor Phips; the general pardon.

Section C

The aspects in breadth focuses on long-term changes across the period studied, and the question may draw on one or both of the themes, therefore no advance notice is supplied for Paper 3 Section C aspects in breadth.

As instructed in HODs meeting this week, I'm sending the advance information for the component 3 appraising exam for music on Wednesday 22nd June 2022.

GCSE Music

For the appraising (listening) exam, Eduqas have given the following specific genres/styles of music, that the unprepared extract questions will focus on:

- Romantic music
- vocal ensembles
- film music
- pop

The extended response will be in Area of Study 3, Music for Film, and the dictation question will require candidates to notate pitch only.

For the set works questions, focus will be on section B of the Badinerie and on the second verse and chorus of Africa.

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This list below shows the topics that will be mainly, although **not** exclusively, tested through the higher mark questions:

2. Learning from	2.1 The factors designers consider when exploring existing products:
existing	Materials & processes used
products and	 Aesthetics – the influence of fashion and trends
practice	The influence of marketing & branding
	The impact on society
	The impact on usability
	 The impact on the environment – life cycle assessment
	The influence of past and present designers
	2.2 How new and emerging technologies influence design decisions, considering:
	• Ethics
	The environment
	Product enhancement
3. Implications	3.1. The impacts of new and emerging technologies when developing designs, on:
of wider issues	 Industry, enterprise e.g. the circular economy
	Society, lifestyle
	The environment
	Sustainability
	3.3 The wider influences on the processes of designing and making:
	Environmental initiatives
	Fair trade
	Social and ethical awareness
	Global sustainable development
5. Material	5.3 The sources or origins of materials:
considerations	Timbers
	Polymers
7.	7.3 How designers and manufacturers ensure accuracy when making prototypes:
Manufacturing	Measuring
processes and	Templates/ jigs
techniques	Working with tolerances
	Efficient cutting to minimise waste
	7.4 How industry professionals use digital design tools when exploring and developing
	design ideas:
	Rapid prototyping
	Digital manufacture
	 Interpretation of plans, 3D Models
	CAD, CAM, CAE
	7.5b. Awareness of manufacturing processes used for larger scales of production:
	 Timbers – CNC routers, sawing, steam bending, lathes
	Polymers – moulding & forming processes

General advice: As well as the above, students and teachers should also consider how to focus their revision of other parts of the specification which may be tested in other lower mark questions.