



Ace Your Exams: Topics for Revision 2019

My key actions/areas of focus following the mocks are:

English: An Inspector Calls

Context	Main Characters	Themes
<ul style="list-style-type: none">• J.B. Priestley• Pre and Post-War• Realism and Postmodernism• Socialism• Social and Moral Responsibility• The Titanic	<ul style="list-style-type: none">• Arthur Birling• Sybil Birling• Sheila Birling• Eric Birling• The Inspector• Gerald Croft	<ul style="list-style-type: none">• Responsibility and Guilt• Age• Class and Gender• The supernatural

English: Macbeth

Context	Main Characters	Themes
<ul style="list-style-type: none">• Shakespeare's Time• The Divine Right of Kings• Witches and the Supernatural• James I• The Role of Women• Healthcare and Medicine	<ul style="list-style-type: none">• Macbeth• Duncan• The Three Witches• Lady Macbeth• Macduff• Banquo	<ul style="list-style-type: none">• Unchecked Ambition• Fate vs Free Will• Gender, Masculinity and Femininity• Inversion of the Natural Order

English: The Sign of Four

Context	Main Characters	Themes
<ul style="list-style-type: none">• Arthur Conan Doyle• The Victoria Era• Colonialism• The Jack the Ripper Murders• Attitudes towards the Police• Racism	<ul style="list-style-type: none">• Sherlock Holmes• Mary Morstan• Athelney Jones• Dr Watson• Jonathan Small/Tonga• Thaddeus Sholto	<ul style="list-style-type: none">• Appearances• Racism• Wealth• Modesty

Maths: Foundation Paper 1		Maths: Foundation Paper 2		Maths: Foundation Paper 3	
Q	Topic	Q	Topic	Q	Topic
1	Use standard units of time	1	Use standard units of length	1	Order integers
2	Addition - decimals	2	Multiples	2	Form an expression - linear
3	2D shape properties	3	Convert between fractions/decimals	3	Manipulate fractions
4	Solving linear equations	4	Use the inequality symbols	4	Positive powers and roots
5	Multiplication - positive integers	5	a Positive powers and roots	5	a Substitution
6	a Construct frequency tree	5	b Rounding numbers - decimal places	5	b Simplifying - single brackets
6	b Interpret frequency tree	6	a Interpret pictograms	6	Addition - positive integers
7	Estimate answers	6	b	7	a Function machines
8	Problem solving with money	6	c	7	b
9	Division - decimals	7	Calculate median	8	a Interpret bar charts
10	Multiplication - fractions	8	a Calculate using bearings	8	b Calculate mean
11	Perimeter of 2D shapes	8	b	8	c Interpret bar charts
12	a Substitution into expressions & formulae	8	c Scale drawings	8	d
12	b	8	d	9	a Factors
13	Order of operations	9	Problem solving with money	9	b Calculate probabilities
14	a Sample space diagrams	10	Mixed - four operations	10	Area of compound shapes
14	b Calculate probabilities	11	Solving linear equations	11	Standard units of time
15	Work with "ratios of ratios"	12	a Scatter graphs - interpret	12	Order fraction, decimals & %
16	a Use $y = mx + c$	12	b	13	a Circle definitions
16	b Plot / sketch straight line graphs	12	c Percentage of an amount	13	b Area of circles
17	Simplifying ie. $A \times B = AB$	13	Angle facts - around a point	14	a Use unit pricing
18	Convert into standard form	14	Proportional reasoning	14	b Interpret plans and elevations
19	a Change between standard units of volume	15	Generate terms of a sequence	15	Types of number - i.e. square, cubes, odd etc
19	b Form an expression - linear	16	Relate ratio to fractions	16	a Similarity
20	Area of circles	17	Convert between fractions and decimals	16	b
21	Solve problems involving % change	18	Percentage of an amount	17	a Apply ratio to real contexts and problems
22	a Use density/mass/volume	19	Apply ratio to real contexts and problems	17	b
22	b Use speed/distance and time	20	a Product rule for counting	18	Proportional reasoning
23	Angle facts - exterior angles	20	b Calculate probabilities	19	a Multiplication - positive integers
24	Relate ratio to fractions	21	a Volume of a pyramid	19	b Mixed - four operations
25	Averages	21	b	20	Percentage of an amount
26	Prime factorisation	22	Pythagoras' Theorem	21	Use ratio notation including simplifying
27	Exact trig values	23	a Plot graphs of functions in real-life contexts	22	a 2D shape properties
28	Simultaneous equations algebraically	23	b Interpret graphs of functions in real-life contexts	22	b Conditions of congruence
		24	Interpret pie charts	23	a Error intervals due to rounding
		25	Probability/fractions/forming equations	23	b Apply and interpret limits of accuracy
		26	a Recognise/plot/sketch quadratic functions	24	a Form and solve an equation - angle facts
		26	b	24	b Angle facts - parallel lines
		27	Convert from standard form	25	a Fractions and probability
		28	Solving linear equations with fractions	25	b
		29	Trigonometry	26	Expand double brackets
				27	Solve linear inequalities

Maths: Higher Paper 1			Maths: Higher Paper 2			Maths: Higher Paper 3		
Q	Topic		Q	Topic		Q	Topic	
1		Positive powers and roots	1		Convert between fractions & decimals	1		Vectors - column arithmetic
2		Conditions of congruence	2		Standard units of area	2		Types of number
3		Reasoning with sequences	3		Midpoint of line segment	3		Change the subject
4		Relate ratio to fractions	4		nth term - linear sequences	4		Calculate using bearings
5		Prime factorisation	5	a	Calculate probabilities	5		Estimating frequency
6		Averages	5	b	Product rule for counting	6		Solve linear inequalities
7		Fraction of an amount	6	a	Recognise/plot/sketch quadratic functions	7	a	Error intervals due to rounding
8		Form an expression - linear	6	b		7	b	Apply and interpret limits of accuracy
9	a	Use density/mass/volume	6	c	Turning points	8	a	2D shape properties
9	b		7		Trigonometry	8	b	Conditions of congruence
10		Simultaneous equations - linear/linear	8	a	Plot graphs in real-life contexts	9	a	Fractions and probability
11		Solve problems involving % change	8	b	Graphs of functions in real-life contexts	9	b	Fractions and probability
12		Area of circles	9		Probability/fractions/forming equations	10	a	Form and solve an equation - angle facts
13		Convert into standard form	10		Interpret pie charts	10	b	Angle facts - parallel lines
14		Solving linear equations	11		Convert from standard form	11		Use ratio notation including simplifying
15		Recurring decimals and fractions	12		Apply circle theorems	12		Positive powers and roots
16	a	Probability trees - independent events	13		Form and solve an equation - linear	13		Reverse mean
16	b		14		Use $y = mx + c$	14		Solve problems using inverse proportion
17	a	Gradient	15	a	Pythagoras' Theorem	15	a	Interpret graphs in real-life contexts
17	b	Use $y = mx + c$	15	b		15	b	Interpret graphs in real-life contexts
18		Proportional reasoning - best value	16		Median from a box plot	16		Depreciation
19	a	Construct cumulative frequency diagram	17		Similarity - Area	17		Use speed/distance and time
19	b	Interpret cumulative frequency diagram	18	a	Venn diagrams	18		Recognise/plot/sketch reciprocal functions
20		Use the equation of a circle	18	b	Calculate probability from Venn diagram	19		Apply circle theorems
21	a	Reflections	19		Apply ratio to real contexts and problems	20		Upper and lower bounds
21	b	Combinations of transformations	20		Sine Rule	21		Identify/interpret roots graphically
22		Similarity	21		Solve quadratic equations - formula	22		nth term - quadratic sequences
23	a	Graphs of functions in real-life contexts	22		Solve problems using direct proportion	23		Turning points graphically - quadratics
23	b	Estimate areas under graphs	23		Vectors - Geometric problems	24		Interpret graphs in real-life contexts
24	a	Calculate with fractional indices	24		Interpret cumulative frequency diagram	25	a	Pythagoras' Theorem
24	b		25		Multiple trig methods	25	b	Trigonometry in 3D
25		Proportional reasoning/Fractions	26	a	Enlargements - Fractional	26		Form an equation - area
26		Expand triple brackets	26	b	Reflections	27		Algebraic proof
27		Equation of a tangent to a circle at a point	27	a	Interpret reverse process as an inverse function			
28		Volume of a cone	27	b				
29		Exact trig values/Surds						

Biology		
B1 Cell Biology	Trilogy and Triple	Triple only
Cell structure	<ul style="list-style-type: none"> Eukaryotes – animal and plant cells, prokaryotes – bacterial cells. Cell specialisation and differentiation Microscopy and required practical 	<ul style="list-style-type: none"> Culturing micro organisms Required practical
Cell division	<ul style="list-style-type: none"> Chromosomes Mitosis and the cell cycle Stem cells 	
Transport in cells	<ul style="list-style-type: none"> Diffusion Osmosis and required practical Active transport 	
B2 Organisation	Trilogy and Triple	Triple only
Principles of organisation	<ul style="list-style-type: none"> Cells, tissues and organs 	
Animal tissues, organs and organ systems	<ul style="list-style-type: none"> Human Digestive System Required practical – qualitative reagents (food tests) Required practical – effect of pH on enzymes The Heart Blood Coronary Heart Disease Health/lifestyle choices Cancer 	
Plant tissues, organs and systems	<ul style="list-style-type: none"> Plant tissue Xylem/Phloem Transpiration/Translation 	
B3 Infection and response	Trilogy and Triple	Triple only
Communicable diseases	<ul style="list-style-type: none"> Communicable diseases Viral diseases Bacterial disease Fungal diseases Protst diseases Human defence systems Vaccinations Antibiotics and painkillers Discovery and development of drugs 	<ul style="list-style-type: none"> Production and use of Monoclonal antibodies Plant disease – detection and identification Plant defence response
B4 Bioenergetics	Trilogy and Triple	Triple only
Photosynthesis	<ul style="list-style-type: none"> Photosynthetic reactions Rate of Photosynthesis Required practical – Photosynthesis Use of Glucose from Photosynthesis 	
Respiration	<ul style="list-style-type: none"> Aerobic and Anaerobic respiration Response to exercise Metabolism 	
B5 Homeostasis and Response	Trilogy and Triple	Triple only
Homeostasis	<ul style="list-style-type: none"> Homeostasis 	<ul style="list-style-type: none"> Control of body temperature
The Human Nervous System	<ul style="list-style-type: none"> Structure and function Required practical – Reaction times 	<ul style="list-style-type: none"> The Brain The Eye
Hormonal coordination in humans	<ul style="list-style-type: none"> Human endocrine system Control of blood glucose concentration 	<ul style="list-style-type: none"> Maintaining water and nitrogen balance in the body

	<ul style="list-style-type: none"> • Hormones in human reproduction • Contraception • Use of hormone to control infertility (HT) • Negative feedback (HT) 	
Plant hormones		<ul style="list-style-type: none"> • Control and coordination • Required practical – light/gravity on the growth of seedlings • Use of plant hormones
B6 Inheritance	Trilogy and Triple	Triple only
Reproduction	<ul style="list-style-type: none"> • Sexual and asexual reproduction • Meiosis • DNA and the genome • Genetic inheritance • Inherited disorders • Sex determination 	<ul style="list-style-type: none"> • Advantages and disadvantages of sexual and asexual reproduction • DNA structure
Variation and evolution	<ul style="list-style-type: none"> • Variation • Evolution • Selective Breeding • Genetic engineering • Evidence of evolution • Fossils • Extinction • Resistant bacteria • Classification of living organisms 	<ul style="list-style-type: none"> • Cloning • Theory of Evolution • Speciation • The understanding of genetics
B7 Ecology	Trilogy and Triple	Triple only
Adaptations, interdependence and competition	<ul style="list-style-type: none"> • Communities • Abiotic factors • Biotic factors • Adaptations 	
Organisation of an ecosystem	<ul style="list-style-type: none"> • Levels of organisation • How materials are cycled 	<ul style="list-style-type: none"> • Decomposition • Required practical – temperature and the rete of decay • Impact of environmental change
Biodiversity and the impact on humans	<ul style="list-style-type: none"> • Biodiversity • Waste management • Land use • Deforestation • Global Warming • Maintaining biodiversity 	
Trophic levels in an ecosystem		<ul style="list-style-type: none"> • Trophic levels • Pyramid of biomass • Transfer of biomass
Food production		<ul style="list-style-type: none"> • Factors affecting food security • Farming techniques • Sustainable fisheries • Role of biotechnology

Chemistry		
C1 Atomic Structure and the Periodic Table	Trilogy and Triple	Triple only
The Atom	<ul style="list-style-type: none"> • Atoms, elements and compounds • Mixtures • The development of the atom • Subatomic particles • Size and mass of atoms • Relative atomic mass • Electronic Structure 	
The Periodic Table	<ul style="list-style-type: none"> • The Periodic Table • Development of the Periodic Table • Metals and non-metals • Group 0 • Group 1 • Group 7 	
Properties of Transition metals		<ul style="list-style-type: none"> • Comparisons with Group 1 elements • Typical properties
C2 Bonding and Structure	Trilogy and Triple	Triple only
Chemical bonds	<ul style="list-style-type: none"> • Chemical bonds • Ionic bonding • Ionic compounds • Covalent bonding • Metallic bonding 	
Properties of substances	<ul style="list-style-type: none"> • Three states of matter • State symbols • Properties of ionic compounds • Properties of small molecules • Polymers • Giant covalent structures • Properties of metals and alloy • Metals as conductors 	
Structure and bonding of Carbon	<ul style="list-style-type: none"> • Diamond • Graphite • Graphene and Fullerenes 	
Bulk and surface properties of matter including nanoparticles		<ul style="list-style-type: none"> • Size of particles and their properties • Uses of nanoparticles
C3 Quantitative Chemistry	Trilogy and Triple	Triple only
Chemical measurements	<ul style="list-style-type: none"> • Conservation of mass • Balancing equations • Relative formula mass • Mass changes when a gas is released • Chemical measurements 	
Use of amount of substance in relation to masses of pure substances	<ul style="list-style-type: none"> • Moles (HT) • Amounts of substances in equations (HT) • Using moles to balance equations (HT) • Limiting reactants (HT) • Concentration of solutions 	
Yield and atom economy of chemical reactions		<ul style="list-style-type: none"> • Percentage Yield • Atom economy

		<ul style="list-style-type: none"> Using concentration of solutions in mol/dm³ Use of amounts of substance in relation to gases
C4 Chemical changes	Trilogy and Triple	Triple only
Reactivity of metals	<ul style="list-style-type: none"> Metal Oxides The reactivity series Extraction of metals and reduction Oxidation and Reduction in terms of electrons (HT) 	
Reaction of acids	<ul style="list-style-type: none"> Reaction of acids with metals Neutralisation of acids and salt production Soluble salts – required practical, preparation of a pure dry salt The pH scale and neutralisation Strong and weak acids 	<ul style="list-style-type: none"> Titration – required practical included
Electrolysis	<ul style="list-style-type: none"> The process of electrolysis Electrolysis of molten ionic compounds Extracting metals using electrolysis Electrolysis of aqueous solutions – required practical Half equations (HT) 	
C5 Energy Changes	Trilogy and Triple	Triple only
Exothermic/Endothermic reactions	<ul style="list-style-type: none"> Energy transfer during exothermic and endothermic reactions – required practical included. Reaction profiles The energy change of reactions (HT) 	
Chemical cells and fuel cells		<ul style="list-style-type: none"> Cells and batteries Fuel cells
C6 The rate and extent of chemical change	Trilogy and Triple	Triple only
Rate of reaction	<ul style="list-style-type: none"> Calculating rates of reaction Factors which affect the rates of chemical reactions- required practical included Collision theory and activation energy Catalysts 	
Reversible reactions and dynamic equilibrium	<ul style="list-style-type: none"> Reversible reactions Energy changes and reversible reactions Equilibrium The effect of changing conditions of equilibrium (HT) The effect of changing concentration (HT) The effect of changing temperature on equilibrium (HT) The effect of changing pressure on equilibrium (HT) 	
C7 Organic Chemistry	Trilogy and Triple	Triple only
Carbon compounds as fuels and feedstock	<ul style="list-style-type: none"> Crude oil, hydrocarbons and alkanes 	

	<ul style="list-style-type: none"> Fractional distillation and petrochemicals Properties of hydrocarbons Cracking and alkenes 	
Reactions of alkenes and alcohols		<ul style="list-style-type: none"> Structure and formulae of alkenes Reactions of alkenes Alcohols Carboxylic acid
Synthetic and naturally occurring polymers		<ul style="list-style-type: none"> Addition polymerisation Condensation polymerisation Amino acids DNA and other naturally occurring polymers
C8 Chemical analysis	Trilogy and Triple	Triple only
Purity, formulations and chromatography	<ul style="list-style-type: none"> Pure substances Formulations Chromatography 	
Identification of common gases	<ul style="list-style-type: none"> Test for Hydrogen Test for Oxygen Test for Carbon Dioxide 	
Identification of ions by chemical and spectroscopic means		<ul style="list-style-type: none"> Flame tests Metal hydroxides Carbonates Halides Sulfates Required prac – chemical tests Instrumental methods Flame emission spectroscopy
C9 Chemistry of the atmosphere	Trilogy and Triple	Triple only
Composition of the Earth's atmosphere	<ul style="list-style-type: none"> The proportions of different gases in the atmosphere The Earth's early atmosphere How Oxygen/Nitrogen increased How Carbon Dioxide decreased 	
Carbon Dioxide and Methane as a greenhouse gases	<ul style="list-style-type: none"> Greenhouse gases Human activities which contribute to an increase in greenhouse gases in the atmosphere Global Climate Change The Carbon Footprint and its reduction 	
Common Atmospheric Pollutants and their sources	<ul style="list-style-type: none"> Atmospheric pollutants from fuels Properties and effects of atmospheric pollutants 	
C10 Using resources	Trilogy and Triple	Triple only
Using the Earth's resources and obtaining potable water	<ul style="list-style-type: none"> Using the Earth's resources and sustainable development Potable water – including required practical Waste Water Treatment Alternative methods of extracting water (HT) 	
Life cycle assessment and recycling	<ul style="list-style-type: none"> Life cycle assessments 	

	<ul style="list-style-type: none"> • Ways of reducing the use of resources 	
Using materials		<ul style="list-style-type: none"> • Corrosion and its prevention • Alloys as useful materials • Ceramics, polymers and composites
The Haber process and the use of NPK fertilisers		<ul style="list-style-type: none"> • The Haber process • Production and uses of NPK fertilisers

Physics		
P1 Energy	Trilogy and Triple	Triple only
Energy changes in a system, and the ways energy is stored before and after such changes.	<ul style="list-style-type: none"> • Energy stores and systems • Changes in energy • Energy changes in systems – including specific heat capacity required practical • Power 	
Conservation and dissipation of energy	<ul style="list-style-type: none"> • Energy transfers in a system • Efficiency • National and global energy resources 	<ul style="list-style-type: none"> • Required practical – investigating the effectiveness of different materials as thermal insulators.
P2 Electricity	Trilogy and Triple	Triple only
Current, potential difference and resistance	<ul style="list-style-type: none"> • Standard circuit diagram symbols • Electrical charge and current • Current, resistance and potential difference • Required practical – investigating resistance • Resistors – including required practical I/V graphs • Series and parallel circuits 	
Domestic uses and safety	<ul style="list-style-type: none"> • Direct and alternating potential difference • Mains electricity 	
Energy transfers	<ul style="list-style-type: none"> • Power • Energy transfers in everyday appliances • The National Grid 	
Static Electricity		<ul style="list-style-type: none"> • Static charge • Electric fields
P3 Particle model of matter	Trilogy and Triple	Triple only
Changes of state and the particle model	<ul style="list-style-type: none"> • Density of materials • Density required practical • Changes of state 	
Internal energy and energy transfers	<ul style="list-style-type: none"> • Internal energy • Temperature changes in a system and specific heat capacity • Changes of heat and specific latent heat 	
Particle model	<ul style="list-style-type: none"> • Particle motion in gases 	<ul style="list-style-type: none"> • Pressure in gases • Increasing the pressure of a gas
P4 Atomic Structure	Trilogy and Triple	Triple only
Atoms and isotopes	<ul style="list-style-type: none"> • The structure of an atom • Mass number, atomic number and isotopes • Development of the model of the atom 	
Atoms and nuclear radiation	<ul style="list-style-type: none"> • Radioactive decay and nuclear radiation • Nuclear Equations • Half-life and the random nature of radioactive decay • Radioactive contamination 	

Hazards and uses of radioactive emissions and the background radiation		<ul style="list-style-type: none"> • Background radiation • Different half-lives of radioactive isotopes • Uses of nuclear radiation
Nuclear fission and fusion		<ul style="list-style-type: none"> • Nuclear fission • Nuclear fusion
P5 Forces	Trilogy and Triple	Triple only
Forces and their interactions	<ul style="list-style-type: none"> • Scalar and vector quantities • Contact and non-contact forces • Gravity • Resultant forces • Work done and energy transfer • Forces and electricity • Required practical – force and extension of a spring 	Moments, levers and gears
Pressure and pressure differences in fluids		<ul style="list-style-type: none"> • Pressure in a fluid • Atmospheric pressure
Forces and motion	<ul style="list-style-type: none"> • Distance and displacement • Speed • Velocity • The distance-time relationship • Acceleration 	
Forces, acceleration and Newton's Laws of motion	<ul style="list-style-type: none"> • Newton's First Law • Newton's Second Law • Required practical – investigating the effect of varying the force on the acceleration of an object. • Newton's Third Law 	
Forces and braking	<ul style="list-style-type: none"> • Stopping distance • Reaction time • Factors affecting braking distance 	
Momentum (HT only)	<ul style="list-style-type: none"> • Momentum is a property of moving objects • Conservation of momentum 	<ul style="list-style-type: none"> • Changes in momentum
P6 Waves	Trilogy and Triple	Triple only
Waves in air, fluids and solids	<ul style="list-style-type: none"> • Transverse and longitudinal waves • Properties of waves • Required practical Ripple tank 	<ul style="list-style-type: none"> • Reflection of waves – required practical reflection of light on different surfaces. • Sound waves • Waves for detection and exploration
Electromagnetic waves	<ul style="list-style-type: none"> • Types of EM waves • Properties of EM waves • Use and application of EM waves 	<ul style="list-style-type: none"> • Lenses • Visible Light
Black body radiation		<ul style="list-style-type: none"> • Emission and absorption of infrared radiation • Perfect black bodies and radiation
P7 Magnetism and electromagnetism	Trilogy and Triple	Triple only
Permanent and induced magnetism, magnetic forces and fields	<ul style="list-style-type: none"> • Poles of a magnet • Magnetic fields 	
The motor effect	<ul style="list-style-type: none"> • Electromagnetism • Fleming's Left Hand Rule (HT) • Eclectic motors (HT) 	<ul style="list-style-type: none"> • Loudspeakers

Induced potential, transformers and the National Grid		<ul style="list-style-type: none"> • Induced potential • Uses of the generator effect • Microphones • Transformers
P8 Space Physics	Trilogy and Triple	Triple only
Solar system; stability of orbital moons; satellites		<ul style="list-style-type: none"> • Our solar system • The life cycle of a star • Orbital motion, natural and artificial satellites • Red Shift

French		
Below are the topics that are covered in GCSE French. Students need to be able to recognise the vocabulary from the topic when listening and reading, and also be able to use it accurately when speaking and writing.		
Identity and culture	Local, national, international and global areas of interest	Current and future study and employment
<ul style="list-style-type: none"> • Me, my family and friends • Technology in everyday life • Free time activities • Customs and festivals in French-speaking countries/communities 	<ul style="list-style-type: none"> • Home, town, neighbourhood and region • Social issues • Global issues • Travel and tourism 	<ul style="list-style-type: none"> • My studies • Life at school/college • Education post-16 • Jobs, career choices and ambitions

French	
In addition to these, students need to demonstrate that they can recognise and use a range of grammar points successfully. The grammar topics are:	
All students	
Nouns	gender
	singular and plural forms
Articles	definite
	indefinite
	partitive
	<i>de</i> after negatives
Adjectives	agreement
	position
	comparative
	superlative
	demonstrative (<i>ce, cet, cette, ces</i>)
	indefinite (<i>chaque, quelque</i>)
	possessive
interrogative (<i>quel, quelle</i>)	
Adverbs	comparative
	superlative
	regular
	interrogative (<i>comment, quand</i>)
	time and place (<i>aujourd'hui, demain, ici, là-bas</i>)
	common adverbial phrases
Qualifiers/intensifiers	<i>très, assez, beaucoup, peu, trop</i>
Pronouns	personal: all subjects, including <i>on</i>
	reflexive
	relative: <i>qui</i>
	relative: <i>que</i>
	object: direct and indirect
	position and order of object pronouns
	disjunctive/emphatic (<i>moi, toi etc.</i>)
	demonstrative (<i>ça, cela</i>)
	indefinite (<i>quelqu'un</i>)
	interrogative (<i>qui, que</i>)
use of <i>y, en</i>	
Verbs	regular - er
	regular -ir

	regular -re
	irregular
	reflexive
	negative forms
	interrogative forms
	modes of address: <i>tu, vous</i>
	impersonal verbs (<i>il faut</i>)
	verbs followed by an infinitive
	Tenses:
	present tense
	perfect
	imperfect: <i>avoir, être and faire</i>
	other common verbs in the imperfect tense
	immediate future
	future
	conditional: <i>vouloir and aimer</i>
	pluperfect
	passive voice: present tense
	imperative
	present participle
Prepositions	<i>eg. à, au à l', aux; de, du, de la, de l', de la, des; après; avant; chez; contre; dans; depuis; derrière; devant; entre; pendant; pour; sans; sur; sous; vers en face de; à côté de etc...</i>
Conjunctions	<i>eg. car; donc; ensuite; et; mais; ou; ou bien; puis comme; lorsque; parce que; puisque; quand; que; si</i>
Number, quantity, dates and time	including <i>depuis</i> + present tense

Higher Tier Students: additional grammar topics	
Adjectives	comparative and superlative, including <i>meilleur, pire</i>
Adverbs	comparative and superlative, including <i>mieux, le mieux</i>
Pronouns	use of <i>y, en</i>
	relative: <i>que</i>
	relative: <i>dont</i>
	object: direct and indirect
	position and order of object pronouns
	demonstrative: <i>celui</i>
	possessive: <i>le mien</i>
Verbs	Tenses:
	simple future
	imperfect
	conditional
	pluperfect
	passive voice: future, imperfect and perfect
	perfect infinitive
	present participle, including use after <i>en</i>
	subjunctive mood: present, in commonly used expressions
Time	use of <i>depuis</i> with imperfect tense

Geography: Paper 1		
Hazardous Earth	Development Dynamics	Challenges of an Urbanising World
<ul style="list-style-type: none"> • Global temperatures, the atmosphere and climate • Cyclones • Tectonics • Tectonic hazards 	<ul style="list-style-type: none"> • Development and population • How countries develop & development models • India 	<ul style="list-style-type: none"> • Urbanisation • Economic and population changes • Mumbai

Geography: Paper 2		
UK's Evolving Physical Landscape	UK's Evolving Human Landscape	Geographical Investigations
<ul style="list-style-type: none"> • UK landscapes. Processes & changes over time • Coasts • Rivers 	<ul style="list-style-type: none"> • UK Population • Employment & globalisation • London • Rural areas: Devon & Cornwall 	<ul style="list-style-type: none"> • River fieldwork • Rural deprivation

Geography: Paper 3
People and the Biosphere
<ul style="list-style-type: none"> • Biomes: global and local factors • People and biomes

History: Paper 1 Medicine in Britain, c1250–present		
c1250–c1500: Medicine in medieval England	c1500–c1700: The Medical Renaissance in England –	c1700–c1900: Medicine in eighteenth- and nineteenth-century Britain
<ul style="list-style-type: none"> • Supernatural and religious explanations of the cause of disease. • Rational explanations: the Theory of the Four Humours and the miasma theory; the continuing influence in England of Hippocrates and Galen. • Approaches to prevention and treatment and their connection with ideas about disease and illness: religious actions, bloodletting and purging, purifying the air, and the use of remedies. • New and traditional approaches to hospital care in the thirteenth century. The role of the physician, apothecary and barber surgeon in treatment and care provided within the community and in hospitals, c1250–1500. • Dealing with the Black Death, 1348–49; approaches to treatment and attempts to prevent its spread. 	<ul style="list-style-type: none"> • Continuity and change in explanations of the cause of disease and illness. • A scientific approach, including the work of Thomas Sydenham in improving diagnosis. • The influence of the printing press and the work of the Royal Society on the transmission of ideas. • Continuity in approaches to prevention, treatment and care in the community and in hospitals. • Change in care and treatment: improvements in medical training and the influence in England of the work of Vesalius. • Key individual: William Harvey and the discovery of the circulation of the blood. • Dealing with the Great Plague in London, 1665: approaches to treatment and attempts to prevent its spread. 	<ul style="list-style-type: none"> • Continuity and change in explanations of the cause of disease and illness. • The influence in Britain of Pasteur’s Germ Theory and Koch’s work on microbes. • The extent of change in care and treatment: improvements in hospital care and the influence of Nightingale. The impact of anaesthetics and antiseptics on surgery. • New approaches to prevention: the development and use of vaccinations and the Public Health Act 1875. • Key individual: Jenner and the development of vaccination. • Fighting Cholera in London, 1854; attempts to prevent its spread; the significance of Snow and the Broad Street pump.
c1900–present: Medicine in modern Britain	British sector of the Western Front, 1914–18: injuries, treatment and the trenches	
<ul style="list-style-type: none"> • Advances in understanding the causes of illness and disease: the influence of genetic and lifestyle factors on health. • Improvements in diagnosis: the impact of the availability of blood tests, scans and monitors. • The extent of change in care and treatment. The impact of the NHS and science and technology: improved access to care; advances in medicines, including magic bullets and antibiotics; high-tech medical and surgical treatment in hospitals. • New approaches to prevention: mass vaccinations and government lifestyle campaigns • Key individuals: Fleming, Florey and Chain’s development of penicillin. • The fight against lung cancer in the twenty-first century: the use of science and technology in diagnosis and treatment; government action. 	<ul style="list-style-type: none"> • The context of the British sector of Western Front and the theatre of war in Flanders and northern France: the Ypres salient, the Somme, Arras and Cambrai. The trench system - its construction and organisation, including frontline and support trenches. • The use of mines at Hill 60 near Ypres and the expansion of tunnels, caves and quarries at Arras. Significance for medical treatment of the nature of the terrain and problems of the transport and communications infrastructure. • Conditions requiring medical treatment on the Western Front, including the problems of ill health arising from the trench environment. The nature of wounds from rifles and explosives. The problem of shrapnel, wound infection and increased numbers of head injuries. The effects of gas attacks. • The work of the RAMC and FANY. The system of transport: stretcher bearers, horse and motor ambulances. The stages of treatment areas: aid post and field ambulance, dressing station, casualty clearing station, base hospital. The underground hospital at Arras. • The significance of the Western Front for experiments in surgery and medicine: new techniques in the treatment of wounds and infection, the Thomas splint, 	

	<p>the use of mobile x-ray units, the creation of a blood bank for the Battle of Cambrai.</p> <ul style="list-style-type: none"> • The historical context of medicine in the early twentieth century: the understanding of infection and moves towards aseptic surgery; the development of x-rays; blood transfusions and developments in the storage of blood. • Knowledge of national sources relevant to the period and issue, e.g. army records, national newspapers, government reports, medical articles. • Knowledge of local sources relevant to the period and issue, e.g. personal accounts, photographs, hospital records, army statistics. • Recognition of the strengths and weaknesses of different types of source for specific enquiries. • Framing of questions relevant to the pursuit of a specific enquiry. • Selection of appropriate sources for specific investigations.
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History: Paper 2 The American West, c1835-c1895		
c1835–c1862 The early settlement of the West	c1862–c1876 Development of the plains	c1876–c1895 Conflicts and conquest
<ul style="list-style-type: none"> • Social and tribal structures, ways of life and means of survival on the Plains. • Beliefs about land and nature and attitudes to war and property. • US government policy: support for US westward expansion and the significance of the Permanent Indian Frontier. The Indian Appropriations Act 1851. • The factors encouraging migration, including economic conditions, the Oregon Trail from 1836, the concept of Manifest Destiny, and the Gold Rush of 1849 • The process and problems of migration, including the experiences of the Donner Party and the Mormon migration, 1846–47. • The development and problems of white settlement farming. • Reasons for tension between settlers and Plains Indians. The significance of the Fort Laramie Treaty 1851. • The problems of lawlessness in early towns and settlements. • Attempts by government and local communities to tackle lawlessness. 	<ul style="list-style-type: none"> • The significance of the Civil War and post war reconstruction, including the impact of the Homestead Act 1862, the Pacific Railroad Act 1862, and the completion of the First Transcontinental Railroad, 1869. • Attempts at solutions to problems faced by homesteaders: the use of new methods and new technology; the impact of the Timber Culture Act 1873 and of the spread of the railroad network. • Continued problems of law and order in settlements, and attempted solutions, including the roles of law officers and increases in federal government influence. • The cattle industry and factors in its growth, including the roles of Iliff, McCoy and Goodnight, the significance of Abilene and of the increasing use of the railroad network. • The impact of changes in ranching on the work of the cowboy. • Rivalry between ranchers and homesteaders. 	<ul style="list-style-type: none"> • Changes in farming: the impact of new technology and new farming methods. • Changes in the cattle industry, including the impact of the winter of 1886–87. The significance of changes in the nature of ranching: the end of the open range. • Continued growth of settlement: the Exoduster movement and Kansas (1879), the Oklahoma Land Rush of 1893. • Extent of solutions to problems of law and order: sheriffs and marshals. The significance of Billy the Kid, OK Corral (1881), Wyatt Earp. • The range wars, including the Johnson County War of 1892. • Conflict with the Plains Indians: the Battle of the Little Big Horn, 1876 and its impact; the Wounded Knee Massacre, 1890. • The hunting and extermination of the buffalo. • The Plains Indians’ life on the reservations. • The significance of changing government attitudes to the Plains Indians, including the Dawes Act 1887 and the closure of the Indian Frontier.

	<ul style="list-style-type: none"> • The impact of railroads, the cattle industry and gold prospecting on the Plains Indians. • The impact of US government policy towards the Plains Indians, including the continued use of reservations. President Grant's 'Peace Policy', 1868. • Conflict with the Plains Indians: Little Crow's War (1862) and the Sand Creek Massacre (1864), the significance of Red Cloud's War (1866–68) and the Fort Laramie Treaty (1868) 	
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History: Paper 2 The Anglo-Saxon and Norman England, c1060–88		
1060–66 Anglo-Saxon England and the Norman Conquest	1066–87 Key topic 2: William I in power: securing the kingdom	1066–88 Norman England
<ul style="list-style-type: none"> • Monarchy and government: the power of the English monarchy; earldoms, local government and the legal system. • The economy and social system: towns and villages; the influence of the Church • The house of Godwin: Harold Godwinson's succession as Earl of Wessex; the power of the Godwins • Harold Godwinson's embassy to Normandy • The rising against Tostig and his exile • The death of Edward the Confessor • The motives and claims of William of Normandy, Harald Hardrada and Edgar • The Witan and the coronation and reign of Godwinson • Reasons for, and significance of, the outcome of the Battles of Fulford and Stamford Bridge • The Battle of Hastings • Reasons for William's victory, including the leadership skills of Harold and William, Norman and English troops and tactics 	<ul style="list-style-type: none"> • The submission of the earls, 1066 • Rewarding followings and establishing control on the borderlands through the use of earls • The Marcher earldoms • Reasons for the building of castles; their key features and importance • The revolts of Earls Edwin and Morcar in 1068 • Edgar the Aethling and the rebellions in the North, 1069 • Hereward the Wake and rebellion at Ely, 1070–71 • The reasons for and features of the Harrying of the North, 1069–70 • Its immediate and long-term impact, 1069–1087 • Changes in landownership from Anglo-Saxon to Norman, 1066–87 • How William I maintained royal power • Reasons for and features of the revolt • The defeat of the revolt and its effects 	<ul style="list-style-type: none"> • The feudal hierarchy: the role and importance of tenants-in-chief and knights; the nature of feudalism (landholding, homage, knight service, labour service); forfeiture • The Church in England: its role in society and relationship to government, including the roles of Stigand and Lanfranc; the Normanisation and reform of the Church in the reign of William I • The extent of change to Anglo-Saxon society and economy • Changes to government after the Conquest: centralised power and the limited use of earls under William I; the role of regents • The office of the sheriff and the demesne; introduction and significance of the 'forest' • Domesday Book and its significance for Norman government and finance • The culture and language of the Norman aristocracy • The career and significance of Bishop Odo • Character and personality of William I and his relations with Robert • Robert and revolt in Normandy, 1077–80 • William's death and the disputed succession • William Rufus and the defeat of Robert and Odo

History: Paper 3: Modern Depth Study: Weimar and Nazi Germany, 1918-1939	
1918–29 The Weimar Republic	1919-33 Hitler's rise to power
<ul style="list-style-type: none"> • The legacy of the First World War. The abdication of the Kaiser, the armistice and revolution, 1918–19. • The setting up of the Weimar Republic. The strengths and weaknesses of the new Constitution. • Reasons for the early unpopularity of the Republic, including the 'stab in the back' theory and the key terms of the Treaty of Versailles. • Challenges to the Republic from Left and Right: Spartacists, Freikorps, the Kapp Putsch. • The challenges of 1923: hyperinflation; the reasons for, and effects of, the French occupation of the Ruhr. • Reasons for economic recovery, including the work of Stresemann, the Rentenmark, the Dawes and Young Plans and American loans and investment. • The impact on domestic policies of Stresemann's achievements abroad: the Locarno Pact, joining the League of Nations and the Kellogg-Briand Pact. • Changes in the standard of living, including wages, housing, unemployment insurance. • Changes in the position of women in work, politics and leisure. • Cultural changes: developments in architecture, art and the cinema. 	<ul style="list-style-type: none"> • Hitler's early career: joining the German Workers' Party and setting up the Nazi Party, 1919–20. • The early growth and features of the Party. The Twenty-Five Point Programme. The role of the SA. • The reasons for, events and consequences of the Munich Putsch. • Reasons for limited support for the Nazi Party, 1924–28. Party reorganisation and <i>Mein Kampf</i>. The Bamberg Conference of 1926. • The growth of unemployment – its causes and impact. The failure of successive Weimar governments to deal with unemployment from 1929 to January 1933. The growth of support for the Communist Party. • Reasons for the growth in support for the Nazi Party, including the appeal of Hitler and the Nazis, the effects of propaganda and the work of the SA. • Political developments in 1932. The roles of Hindenburg, Brüning, von Papen and von Schleicher. • The part played by Hindenburg and von Papen in Hitler becoming Chancellor in 1933.
Nazi control and dictatorship	1933-39 Life in Nazi Germany
<ul style="list-style-type: none"> • The Reichstag Fire. The Enabling Act and the banning of other parties and trade unions. • The threat from Röhm and the SA, the Night of the Long Knives and the death of von Hindenburg. Hitler becomes Führer, the army and oath of allegiance. • The role of the Gestapo, the SS, the SD and concentration camps. • Nazi control of the legal system, judges and law courts. • Nazi policies towards the Catholic and Protestant Churches, including the Reich Church and the Concordat. • Goebbels and the Ministry of Propaganda: censorship, Nazi use of media, rallies and sport, including the Berlin Olympics of 1936. • Nazi control of culture and the arts, including art, architecture, literature and film. • The extent of support for the Nazi regime. • Opposition from the Churches, including the role of Pastor Niemöller. • Opposition from the young, including the Swing Youth and the Edelweiss Pirates. 	<ul style="list-style-type: none"> • Nazi views on women and the family. • Nazi policies towards women, including marriage and family, employment and appearance. • Nazi aims and policies towards the young. The Hitler Youth and the League of German Maidens. • Nazi control of the young through education, including the curriculum and teachers. • Nazi policies to reduce unemployment, including labour service, autobahns, rearmament and invisible unemployment. • Changes in the standard of living, especially of German workers. The Labour Front, Strength Through Joy, Beauty of Labour. • Nazi racial beliefs and policies and the treatment of minorities: Slavs, 'gypsies', homosexuals and those with disabilities. • The persecution of the Jews, including the boycott of Jewish shops and businesses (1933), the Nuremberg Laws and Kristallnacht.

Philosophy and Ethics: Christian Beliefs and Practices		
Beliefs	Practices: <i>Worship and festivals:</i> Different forms of worship and their significance	Good and Evil
<ul style="list-style-type: none"> • The nature of God: God as omnipotent, loving and just and the problem of evil. • The oneness of God and the Trinity: Father, Son and Holy Spirit. • Different Christian beliefs about creation including the role of Word and Spirit (John 1:1-3 and Genesis 1:1-3). • Jesus Christ and Salvation: Beliefs and teaching about the incarnation and Jesus as the Son of God and the crucifixion. • Jesus Christ and Salvation: Beliefs and teaching about the resurrection and ascension and life after death • Jesus Christ and Salvation: Different Christian beliefs about the afterlife and their importance, including: resurrection and life after death: judgement, heaven and hell. • Jesus Christ and Salvation: Beliefs and teaching about sin, including original sin, the means of salvation, including, law, grace and Spirit, the role of Christ in salvation and atonement. 	<ul style="list-style-type: none"> • Liturgical, non-liturgical and informal, including the use of the Bible and private worship. Prayer and its significance, including Lord's Prayer and informal prayer. • The role and meaning of the sacraments: The meaning of sacrament, the sacrament of baptism and its significance for Christians; infant and believers baptism; different ways in which it is celebrated and different interpretations of its meaning. • The sacrament of Eucharist (Holy Communion) and its significance for Christians, including different ways in which it is celebrate and different interpretations of its meaning. • The role and importance of pilgrimage and celebrations including: two contrasting examples of Christian pilgrimage: Lourdes and Iona. The celebrations of Christmas and Easter, including their importance for Christians in Great Britain today. • <i>The role of the church in the local and worldwide community:</i> The role of the Church in the local community, including food banks and street pastors. The place of mission, evangelism and Church growth. • The importance of the worldwide church including: The work for reconciliation, how Christian church respond to persecution and the work of Christian Aid. 	<ul style="list-style-type: none"> • Different ideas about what makes an act 'wrong'? • Religious and ethical ideas about relative and absolute morality, conscience, virtues, sin. • Beliefs and attitudes about the causes of crime and the aims of punishment: justice, retribution, deterrence and reformation. • The treatment of criminals and the work of prison reformers and prison chaplains. • Varied Conservative and Liberal Christian responses to the Death Penalty, including interpretations of Christian teaching: Exodus 20:13, Matthew 5:38-39, 43-47. • Christian teachings about forgiveness, including interpretations of teachings: Matthew 18:21-22, Matthew 6: 14-15. • Examples of forgiveness arising from personal beliefs (eg. Gee Walker). • Philosophical perspectives on the origin of evil: Original Sin (free will) and 'soul-making' (Irenaeus and John Hick). • Philosophical challenges posed by belief in God, free will and the existence of evil and suffering. • The key concepts and their definitions for this unit.

Philosophy and Ethics: Islam Beliefs and Practices	
Beliefs	Practices: Worship
<ul style="list-style-type: none"> • The six articles of faith in Sunni Islam and five roots of Ulul ad-Din in Shi'a Islam, including key similarities and differences. • The oneness of God (Tawhid), Quran Surah 112 and the nature of God: omnipotence, beneficence, mercy, fairness and justice (Adalat in Shi'a Islam), including 	<ul style="list-style-type: none"> • Five Pillars of Sunni Islam and the Ten Obligatory Acts of Shi'a Islam (student should study the 5 pillars and jihad in both Sunni and Shi'a Islam and the additional duties of Shi'a Islam). Shahadah: Declaration of faith and its place in Muslim practice. • Salah and its significance: how and why Muslims pray including times, directions, ablution (wudu),

<p>different ideas about God’s relationship with the world: immanence and transcendence.</p> <ul style="list-style-type: none"> • Angels, their nature and role including Jibril and Mikar’il and predestination and human freedom and its relationship to the Day of Judgement. • Life after Death (Aakhirah), human responsibility and accountability, resurrection, heaven and hell. • Authority: Prophet hood (Risalah) including the role and importance of Adam, Ibrahim and Muhammad. • The six articles of faith in Sunni Islam and five roots of Ulul ad-Din in Shi’a Islam, including key similarities and differences. • Authority: The Holy Books – Qur’an: revelation and authority, the Torah, the Psalms, the Gospel, the Scrolls of Abraham and their authority. The imamate in Shi’a Islam: its role and significance. 	<p>movements (rak’ahs) and recitations; salah in the home and mosque and elsewhere; Friday prayer (Jummah); key differences in practices of Salah in Sunni and Shi’a Islam, and different Muslim views about the importance of prayer.</p> <ul style="list-style-type: none"> • Duties and festivals: Sawm: the role and significance of fasting during the month of Ramadan including origins, duties, benefits of fasting, the exceptions and their reasons, and the Night of Power • Duties and festivals: Zakah: The role and significance of the pilgrimage to Makkah including origins how hajj is performed, the actions pilgrims perform at sites including the Ka’aba at Makkah, Mina, Arafat, Muzdalifah and their significance. • Duties and festivals: Jihad: Different understandings of jihad: the meaning and significance of great and lesser jihad, origins and conditions for the declaration of lesser jihad. • Duties and festivals: Festivals and commemorations and their importance for Muslims in Great Britain today, including the origins and meaning of Id-ul-Adha, Id-ul-Fitr, Ashura.
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Philosophy and Ethics: Component 1 Theme 1 - Issues of Relationships (Christian Denominations)		
	Sexual Relationships	Issues of Equality: Gender prejudice and discrimination
<ul style="list-style-type: none"> • Christian beliefs, attitudes and teachings about the nature and purpose of relationships in the twenty first century • The role of families and how Christianity encourages family units. The roles of women and men • The purpose of families, including: procreation, stability and the protection of children, educating children in a faith. • Contemporary family issues including: same-sex parents and polygamy • Marriage outside the religious tradition and cohabitation • The nature and purpose of marriage as expressed through the Christian marriage ceremonies and teachings: Mark 10:6-10 and the Church of England Synod • Varying Christian attitudes towards adultery, divorce and annulment and separation and re-marriage. Interpretations of Matthew 19:8-9, Mark 10:9 	<ul style="list-style-type: none"> • Christian teachings about the nature and purpose of sex • Christian teachings about the use of contraception including varied interpretations of Thomas Aquinas' Five Precepts • Diverse attitudes within and across Christian traditions towards same sex relationships, including varied interpretations of: Leviticus 18:22, 20:3 and 1 Timothy 1: 8-10 • Human sexuality including: heterosexual and homosexual relationships. 	<ul style="list-style-type: none"> • Diverse attitudes within Christianity toward the roles of women and men in worship and authority • Interpretations of teachings: 1 Timothy 2:11-12, Galatians 3:27-29 • Gender equality: Gender prejudice and discrimination including examples

Philosophy and Ethics: Component 1 Theme 3 - Issues of Good and Evil (Christian Denominations)

Crime and Punishment	Forgiveness	Good, Evil and Suffering
<ul style="list-style-type: none"> Religious and ethical responses: relative and absolute morality, conscience, virtues, sin Beliefs and attitudes about the causes of crime and the aims of punishment: justice, retribution, deterrence and reformation The treatment of criminals and the work of prison reformers and prison chaplains Varied Christian responses to the Death Penalty, including interpretations of Christian teaching: Exodus 20:13, Matthew 5:38-39, 43-47 	<ul style="list-style-type: none"> Christian teachings about forgiveness, including interpretations of teachings: Matthew 18:21-22, Matthew 6: 14-15 Examples of forgiveness arising from personal beliefs. 	<ul style="list-style-type: none"> Philosophical perspectives on the origin of evil: Original Sin (free will) and 'soul-making' Philosophical challenges posed by belief in God and the existence of evil and suffering <p>Key Concepts</p> <ul style="list-style-type: none"> good/evil forgiveness free will justice morality punishment sin suffering

Philosophy and Ethics: Component 1 Theme 4 - Issues of Life and Death (Christian Denominations)

The World	The Origin and Value of Human Life	Beliefs about Death and the Afterlife
<ul style="list-style-type: none"> Diverse Christian beliefs, teachings and attitudes about the accounts of the origin of the universe: Genesis 1 and 2 The relationship between Christian views and non-religious views of creation and the extent to which they conflict Christian beliefs, teachings and attitudes about dominion, stewardship, environmental responsibility, sustainability, and global citizenship: Genesis 1:28, Psalm 8:6 	<ul style="list-style-type: none"> Diverse Christian beliefs, teachings and attitudes toward the origin and sanctity of human life: Genesis 1:31, Jeremiah 1:5 Diverse Christian attitudes towards abortion and euthanasia Non-religious views about the origin and value of human life, including attitudes toward abortion and euthanasia 	<ul style="list-style-type: none"> Christian beliefs and teachings about life after death, including soul, judgement, heaven and hell: John 11:24-27, 1 Corinthians 15: 42-44 Diverse Christian beliefs about the after-life How Christian and non-religious funerals reflect beliefs about the after-life <p>Key Concepts</p> <ul style="list-style-type: none"> afterlife environmental sustainability euthanasia evolution abortion quality of life sanctity of life soul

Computer Science

- Systems Architecture: Von Neumann Architecture
- MAR, MDR, ALU, PC
- Fetch – Decode - Execute
- Networks and Topologies
- Protocols: HTTPS, HTTP, FTP., TCP/IP, POP, IMAP, SMTP
- Ethical, Legal, Cultural, and Environmental concerns

Food and Nutrition

Food, Nutrition and Health	Food Science	Food Safety
<ul style="list-style-type: none"> • Vitamins • Minerals • Diet and health 	<ul style="list-style-type: none"> • Cooking and heat transfer • Proteins: denaturation, coagulation, gluten, foams • Carbohydrates: gelatinisation, Dextrinisation, Caramelisation • Fats and oil: shortening, aeration, emulsification • Raising agents 	<ul style="list-style-type: none"> • Spoilage and contamination • Micro-organisms and enzymes • Bacteria • Preparing, cooking and serving
Food Choice	Food Provenance	
<ul style="list-style-type: none"> • Influences • Religion • Dietary needs • Marketing and labelling • International cuisine 	<ul style="list-style-type: none"> • Environmental impact • Sustainability • Food production and processing 	

DT: Product Design

Core Technical Principles (10% overall GCSE)	Specialist Technical Principles (40% overall GCSE)	Designing and Making Principles (NEA 50% and Exam)
<ul style="list-style-type: none"> • Energy generation and storage • New technologies • New materials • Systems approach to designing, • Mechanical devices • Materials and working properties 	<ul style="list-style-type: none"> • Selection of materials and components • Forces and stresses • Ecological and social footprint • Sources and origins • Using and working with materials • Stock forms, types and sizes • Scales of production • Specialist techniques and processes • Surface treatments and finishes 	<ul style="list-style-type: none"> • Investigation • Primary and Secondary data • Environmental, Social and Economic challenge • The work of others • Design strategies • Communication of design • Prototype development • Selection of materials and components • Tolerances • Materials management • Specialist tools and equipment • Specialist techniques and processes • Designing and making principles

GCSE Physical Education (PE)

- Skeletal System
- Muscular System
- CV system
- Respiratory System
- Levers
- Axes and Planes
- Training Principles
- Fitness Components

Drama: Component 1

Written Paper - Section A	Written Paper - Section B	Written Paper - Section C
<ul style="list-style-type: none">• Theatre roles• Responsibilities• Terminology• Staging/stage space <p><i>Students will need look at the theatre roles/responsibilities and terminology lists and staging configurations to remind themselves of this information</i></p>	<ul style="list-style-type: none">• Blood Brothers <p><i>Read over notes and any character work. Students will have a copy of the play in the exam so DO NOT NEED to learn quotes but knowing where useful sections are will help save time in the exam</i></p>	<ul style="list-style-type: none">• Live theatre <p><i>Students need to remember THE PRODUCTION, THE VENUE AND DATE. They must know in detail several KEY MOMENTS from the production they have seen. Revise 3 KEY MOMENTS and at least 2 ACTORS/CHARACTERS in detail linking to specific moments. *students will write about the piece we see in Feb 2019 for this section.</i></p>

Music

- Baroque concerto
- Classical concerto
- Romantic Concerto
- Indian Classical
- Bhangra
- African Drumming
- Greek, Israeli, Palestine
- Samba
- Calypso
- Rock and roll
- Rock
- Pop Ballads
- Solo Artists
- Film

Dance		
Performance: Knowledge, understanding and skills	Solo performance (two of the following set phrases to perform as a soloist)	Duet/trio performance
<p>Physical skills and attributes: • posture • alignment • balance • coordination • control • flexibility • mobility • strength • stamina • extension • isolation</p> <p>Technical skills: • action content • dynamic content • spatial content • relationship content – for duet/trio performance only • timing content • rhythmic content • movement in a stylistically accurate way</p> <p>Expressive skills: • projection • focus • spatial awareness • facial expression • phrasing</p> <p><u>For duet/trio performance only:</u> • musicality • sensitivity to other dancers • communication of choreographic intent, including mood(s), meaning(s), idea(s)</p> <p>Mental skills and attributes (during performance): • movement memory • commitment • concentration • confidence</p> <p>Safe working practices (during performance): • safe execution • appropriate dancewear, including: footwear, hairstyle, absence of jewellery</p> <p>Mental skills and attributes (process): • systematic repetition • mental rehearsal • rehearsal discipline • planning of rehearsal • response to feedback • capacity to improve</p> <p>Safe working practices (process): • warming up • cooling down • nutrition • hydration</p>	<p>• breathe • flux • shift • scoop</p> <p>Focus on ability to demonstrate application of: • physical skills and attributes safely during performance • technical skills accurately and safely during performance • expressive skills • mental skills and attributes during performance</p>	<p>• opportunities for students to demonstrate the additional knowledge, skills and understanding specific to duet/trio performances ie relationship content, musicality and sensitivity to other dancers</p> <p>• opportunities for students to demonstrate safe practice at a challenging level, eg physical contact and interaction with other dancers, elevations, moving into and out of the floor at speed</p> <p>• an appropriate aural setting</p> <p>Focus on ability to demonstrate application of: • physical skills and attributes safely during performance • technical skills accurately and safely during performance • expressive skills • mental skills and attributes during performance</p>
Professional set works: be prepared to describe, analyse, interpret, evaluate and reflect on the works		
Dance work	Dance company	Choreographer
Artificial Things A Linha Curva Infra Shadows Within Her Eyes Emancipation of Expressionism	Stopgap Dance Company Rambert Dance Company The Royal Ballet Phoenix Dance Theatre James Cousins Company Boy Blue Entertainment	Lucy Bennett Itzik Galili Wayne McGregor Christopher Bruce James Cousins Kenrick H2O Sandy

Dance: Choreography	
Knowledge, understanding and skills for choreography:	Documenting the choreography: (programme note of approximately 120–150 words)
<p>Action content: • travel • turn • elevation • gesture • stillness • use of different body parts • floor work • transfer of weight</p> <p>Dynamic content: • fast/slow • sudden/sustained • acceleration/deceleration • strong/light • direct/indirect • flowing/abrupt</p> <p>Spatial content: • pathways • levels • directions • size of movement • patterns • spatial design</p> <p>Relationship content: • lead and follow • mirroring • action and reaction • accumulation • complement and contrast • counterpoint • contact • formations</p> <p>Choreographic processes: • researching • improvising • generating • selecting • developing • structuring • refining and synthesising</p> <p>Structuring devices and form: • binary • ternary • rondo • narrative • episodic • beginning/middle/end • unity • logical sequence • transitions</p> <p>Choreographic devices: • motif and development • repetition • contrast • highlights • climax • manipulation of number • unison and canon</p> <p>Aural settings (and how they affect choreographic outcomes): • song • instrumental • orchestral • spoken word • silence • natural sound • found sound • body percussion</p> <p>Effects on choreographic outcomes: • mood and atmosphere • contrast and variety • structure • relationship to theme/idea</p> <p>Performance environments: • proscenium arch • end stage • site-sensitive • in-the-round</p> <p>Communication of choreographic intent: • mood(s) • meaning(s) • idea(s) • theme(s) • style/style fusion(s)</p>	<p>• the choice of the set assessment stimulus to which the student responded, and the specific stimulus (eg poem, painting etc) that the student used • a description of how the choreographic intent of the work eg the idea(s), theme(s), mood(s), meaning(s) and/or style/style fusion(s) of the dance was achieved • citations of title and musician/artist for any aural accompaniment used</p> <p>Critical appreciation of professional set works:</p> <p>Features of production: • staging/set eg projection, furniture, structures, backdrop, screens and features of these such as colour, texture, shape, decoration, materials • lighting eg colour, placement, direction, angles etc • properties eg size, shape, materials, how used etc</p> <p>• costume (including footwear, masks, make-up and accessories): features such as colour, texture, material, flow, shape, line, weight, decoration and how they define character or gender, identify dancers, enhance or sculpt the body and enhance the action • dancers (number, gender) • aural settings eg song, instrumental, orchestral, spoken word, silence, natural sound, found sound, body percussion, style, structure and musical elements such as tone, pitch and rhythm • dance for camera eg placement, angle, proximity, special effects</p> <p>Performance environments: • proscenium arch • end stage • site-sensitive • in-the-round</p> <p>Choreographic content: • movement content as per the knowledge, skills and understanding for choreography specified in Choreography • structuring devices and • choreographic devices</p> <p>Choreographic intent: • mood(s) • meaning(s) • idea(s) • theme(s) • style/style fusion(s)</p> <p>Critical appreciation of own work:</p> <p>Performance: • the meaning of the relevant performance terminology in Performance • the contribution of performance to audience understanding of the choreographic intent of the work being performed including the mood(s), meaning(s), idea(s), theme(s) and/or style/style fusion(s)</p> <p>Choreography: • the meaning of relevant choreography terminology in Choreography • the contribution of choreography to audience understanding of the choreographic intent of the work including the mood(s), meaning(s), idea(s), theme(s) and/or style/style fusion(s)</p>