



EDEN BOYS' LEADERSHIP ACADEMY

YEAR 11 MOCK EXAMINATIONS

REVISION LISTS

Spring 1



**FULL TIMETABLE 30th January – February 6th, 2023**

<u>Session 1</u> (8.00am-10.05am)	<u>Session 2</u> (10.20am -12.20pm)	<u>Session 3</u> (1pm-3.10pm)
MONDAY 30th January 2023		
English Language Paper 1 (1hr 45mins)	Normal lessons	Biology paper 2 (1hr 45mins) Biology (combined) paper 2 (1hr 15mins)
TUESDAY 31st January 2023		
Maths Paper 2-calculator (1hr 30 mins)	Normal lessons	Geography Paper 1: Living with the Physical Environment (1 hour 30 mins) History Paper 2 Health and the People (1 hour)
WEDNESDAY 1st February 2023		
Computer Science Combined Paper (1hr 30 mins)	Normal lessons	Religious Education P1 Islam, Beliefs and practices and Christian beliefs + practices (1hr 45 minutes)
THURSDAY 2nd February 2023		
English Literature paper 1 (1hr 45mins)	Normal lessons	Paper 1: French – Writing (Foundation 1hr 5mins, Higher 1hr 20mins) Arabic – Reading (Foundation 50 minutes Higher 1hr 05mins) Urdu - Writing (Foundation 1hr 5mins, Higher 1hr 20mins)
FRIDAY 3rd February 2023 – (Friday Timings apply – sessions adjusted for this		
<u>Session 1</u> (8.00am-10.05am)	<u>Session 2</u> (10 am-11.20 am)	<u>Session 2</u> (11:45 am-1:15pm)
Maths Paper3- calculator (1hr 30 mins)	Chemistry paper 2 (1hr 45mins) Chemistry (combined) paper 2 (1hr15mins)	Normal lessons
MONDAY 6th February 2023		
<u>Session 1</u> (8.00am-10.05am)	<u>Session 2</u> (10.20am -12.20pm)	<u>Session 3</u> (1pm-3.10pm)
Physics paper2 (separate science) (1hr 45mins) Physics (combined) paper 2 (1hr 15mins)	Geography Paper 2: Challenges in the Human Environment (1 hour 15 mins)	Normal lessons





English Revision Lists

English Literature: A Christmas Carol

Main Topic	I am able to...	Tick when completed
Context: social and historical	Name the Era 'A Christmas Carol' was written in.	
	Explain what the industrial revolution was	
	Define the term 'poverty'	
	Explain how the UK was affected by poverty at the time	
	Explain what a workhouse was and the conditions of them	
	Define capitalism	
	Explain how capitalism affected society at the time	
	Confidently link this context to the novella	
Context: the writer	Name the writer of the novella	
	Recall key details about the writer's life	
	Explain the writer's possible reasons behind writing the novella	
	Recall when the novella was set and when it was written	
	Confidently link this context to the novella	
Plot	Recall where the novella is set	
	Recall the key message of the preface	
	Recall the key events and plot details of Stave 1	
	Recall the key events and plot details of Stave 2	
	Recall the key events and plot details of Stave 3	
	Recall the key events and plot details of Stave 4	
	Recall the key events and plot details of Stave 5	
Character: Scrooge	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character: Bob Cratchit	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character: Fred	Explain how this character is presented	
	Use key vocabulary to describe the character	





	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
	Explain how this character is presented	
Character: Jacob Marley	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character: The Ghost of Christmas Past	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character: The Ghost of Christmas Present	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character: The Ghost of Christmas Yet to Come	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the novella	
Character	Recall other minor characters and explain their importance	
Themes: Redemption	Explain what this theme is/means	
	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Social Responsibility	Explain what this theme is/means	





	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Gender	Explain what this theme is/means	
	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: The Supernatural	Explain what this theme is/means	
	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Family	Explain what this theme is/means	
	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Isolation	Explain what this theme is/means	
	Explain where it is seen in the novella	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	





English Literature: Macbeth

Main Topic	I am able to...	Tick when completed
Context: social and historical	Recall who was on the throne at the time 'Macbeth' was written	
	Name the Era 'Macbeth' was written in	
	Explain what the monarch was like and why that is significant	
	Define the term 'supernatural'	
	Explain views towards the supernatural at the time	
	Explain the role of women at the time	
	Explain what happened in the gunpowder plot	
	Confidently link this context to the play	
Context: the writer	Name the writer of the play	
	Recall key details about the writer's life	
	Explain the writer's possible reasons behind writing the play	
	Recall when the play was set and when it was written	
	Confidently link this context to the play	
Plot	Recall where the play is set	
	Recall the key events and plot details of Act 1	
	Recall the key events and plot details of Act 2	
	Recall the key events and plot details of Act 3	
	Recall the key events and plot details of Act 4	
	Recall the key events and plot details of Act 5	
Character: Macbeth	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: Lady Macbeth	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: Banquo	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: The Witches	Explain how this character is presented	
	Use key vocabulary to describe the character	





	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: Macduff	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: Malcolm	Explain how this character is presented	
	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character	Recall other minor characters and explain their importance	
Themes: Ambition	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Appearance v Reality	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Gender	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Good v Evil	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Fate v Free Will	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes: Fate v Free Will	Explain what this theme is/means	
	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	





English REVISION LIST

Language Paper 1

Topic Title	Key information/ Links	Tick when completed
Question 2 – <i>how does the writer use language?</i>	<ul style="list-style-type: none"> Point, evidence and explain (PEE) – the effects are very important Narrative voice – first person (I), second (you), or third (he, she or they). Simile – when something is described like or as something else: He roared like a lion Metaphor – when a meaning is not literal: He is a lion. Listing/use of three – sometimes for emphasis Rhetorical Questioning – not requiring an answer Senses – sight, sound, touch, smell and taste Onomatopoeia – words that sound as they are spelt: crash, or sometimes called sound imagery Alliteration – words in a sentence with the same initial sound Repetition – words repeated for emphasis or effect Exaggeration/hyperbole – ‘It’s a million times better...’ Identify a variety of sentence lengths and structures and their effect: Personification – giving human qualities Comparative and superlative adjectives – tall, taller, tallest Semantic fields and connotations – words that share or create theme Connotations of words – what are the images that the word brings to mind? Word classes: nouns, verbs, adjectives, adverbs, conjunctions (particularly action verbs – ran, swept etc.) 	
Question 3: <i>how does the writer use structure?</i>	<ul style="list-style-type: none"> Setting, atmosphere, weather – creating a sense of place and time Introduction of character – or more characters as the text progresses Dialogue: usually a discussion between characters or even an internal thought Zooming in and out – perspective/focus Switch in time or place: dream, flash back or forward, change of location or topic Narrative voice (see language) Creation of suspense or tension Cliff-hanger ending or twist in the story Sentence types: but only if related to structure not language! Words: but only if a word indicates a significant change in structure! Contrasts: from happy to sad, dark to light, day to night etc 	
Question 4- Own opinion <i>‘to what extent do you agree or disagree?’</i>	<ul style="list-style-type: none"> Make a clear comment on your opinion Create a quick plan: ideas for and against Argue and counter argue – show awareness of other point of view Writer’s methods: understand that this is also a language question – What do you think? Why do you think this? And How has the writer used ‘methods’/language to make you think this? Quotations: give evidence for your points 	
Question 5: Creative writing task.	<ul style="list-style-type: none"> The difference between descriptive and narrative options: Descriptive is written in 3rd person, narrative will be 1st person. Quality rather than quantity! – 	





	<ul style="list-style-type: none">• Taking hints from the text you have read: this is not the same as copying or cheating, but wisely reading for inspiration	
	<ul style="list-style-type: none">• Planning: do you usually do this? It is recommended that you take a few minutes to plan	
	<ul style="list-style-type: none">• Use a range of punctuation to guide the reader:	
	<ul style="list-style-type: none">• Range of vocabulary for effect: interesting words or more ambitious ones.	
	<ul style="list-style-type: none">• A range of sentence types and language devices	
	<ul style="list-style-type: none">• Strong opening sentence/paragraph for impact	
	<ul style="list-style-type: none">• Include some dialogue: not too much	





MATHS FOUNDATION REVISION LIST

	Topics	Tick when completed
1.	Write a decimal as a percentage	
2.	Convert metres into centimetres	
3.	Shade a fraction of a shape	
4.	Order directed numbers	
5.	Find the median of a list of ordered numbers	
6.	Word problem involving money	
7.	Simplify an algebraic expression	
8.	Simplify an algebraic expression	
9.	Write down a factor of 10	
10.	Write down an even number	
11.	Draw a triangle on a grid	
12.	Reflect a triangle in a mirror line	
13.	Interpret a pie chart	
14.	Interpret a pie chart	
15.	Interpret a pie chart	
16.	Create an expression	
17.	Substitute into an expression	
18.	Write a fraction as a decimal	
19.	Write a fraction as a percentage	
20.	Solve an equation involving a fraction	
21.	Solve an equation involving one set of brackets	
22.	Word problem involving currency	
23.	Recipe problem	
24.	Find the reciprocal of a number	
25.	Evaluate a numerical expression using a calculator	
26.	Complete a probability table	
27.	Find an estimate probability	
28.	Plot a point on a scatter graph	





29.	State the type of correlation	
30.	Use a scatter graph	
31.	Perimeter problem involving algebra	
32.	Properties of straight lines	
33.	Find the area of a rectangle	
34.	Word problem involving density	
35.	Write a number in index form	
36.	Write an expression involving numbers written in index form	
37.	Solve a simultaneous equation	
38.	Round to the nearest hundred	
39.	Write a list of decimals in order of size	
40.	Convert from hours to minutes	
41.	Find the midpoint of two numbers	
42.	Write a percentage as a decimal	
43.	Word problem involving converting between litres and millilitres	
44.	Find the mean of a list of numbers	
45.	Problem involving listing combinations	
46.	coordinates	
47.	Name a quadrilateral	
48.	Word problem involving money	
49.	Word problem involving percentage and money	
50.	Complete a grouped frequency table	
51.	Word problem involving ratio and fractions	
52.	Calculate the size of an unknown angle in a kite	
53.	Expand a single term over a bracket	
54.	Factorise an expression	
55.	Word problem involving cubes and cuboids	
56.	Interpret a stem and leaf diagram	
57.	Problem involving fractions and finding an unknown number	
58.	Substitute into an expression	
59.	Change the subject of an equation	
60.	Find the HCF and LCM of two numbers	





61.	Word problem involving money	
62.	Word problem involving a cylinder	
63.	Word problem involving money and percentages	
64.	Find the error interval of a rounded number	
65.	Find an estimate for the mean	
66.	Write a translation as a column vector	
67.	Word problem involving time and proportion	
68.	Expand and simplify a pair of brackets	
69.	Simplify an expression written in index form	
70.	Simplify an algebraic fraction	
71.	Calculate the size of an unknown angle in a right angled triangle	





MATHS HIGHER REVISION LIST

	Topics	Tick when completed
1.	Find the reciprocal of a number	
2.	Evaluate a numerical expression using a calculator	
3.	Complete a probability table	
4.	Find an estimate for the number of successes from a probability table	
5.	Plot a point on a scatter graph	
6.	State the type of correlation	
7.	Use a scatter graph	
8.	Perimeter problem involving algebra	
9.	Question involving the properties of straight lines	
10.	Find the area of a rectangle	
11.	Word problem involving density	
12.	Word problem involving compound interest	
13.	Problem involving right angled triangles	
14.	Problem involving combinations	
15.	Expand and simplify three pairs of brackets	
16.	Solve an equation with the unknown on both sides	
17.	Solve a quadratic equation	
18.	Identify the inequalities that define a shaded region on a graph	
19.	Identify an error in a given statement	
20.	Problem involving similar shapes	
21.	Problem involving vectors	
22.	Estimate the gradient of a curve at a given point	
23.	Describe what the gradient in part a represents	
24.	Calculate the size of an unknown angle in a triangle	
25.	Word problem involving bounds and pressure	
26.	Complete the square for a given quadratic equation	
27.	frequency tables	
28.		





29.	Find the HCF and LCM of two numbers	
30.	Word problem involving money and percentages	
31.	Find the error interval of a rounded number	
32.	estimate for the mean Grouped Frequency Table	
33.	Write a translation as a column vector	
34.	Word problem involving time and proportion	
35.	Estimate the turning point of a quadratic from its curve	
36.	Estimate the solution to an equation from the curve of a quadratic	
37.	Word problem involving money and depreciation	
38.	Determine if two triangles are similar	
39.	Interpret a box plot	
40.	Find an expression for the nth term of a quadratic sequence	
41.	Simplify an algebraic fraction	
42.	Find the area of a triangle	
43.	Find the length of a side of a triangle	
44.	Change the subject of a formula	
45.	Use an iteration formula	
46.	Estimate the area under a speed-time curve	
47.	Word problem involving the surface area of a compound solid	
48.	Decide how a change in conditions affects the answer to part a	
49.	Word problem involving probability	
50.	Problem involving ratio and 3D trigonometry	
51.	Sketch the transformation of a curve	
52.	Sketch a translated circle	
53.	Find the equation of a tangent to a circle at a given point	





Biology Combined Science Revision List

Paper 2	Topic	Key information/ Links	Tick when completed
	The human nervous system	B10.1 Principles of homeostasis B10.2 Structure & function of nervous system B10.3 Reflex actions	
	Hormonal coordination	B11.1 Hormonal control B11.2 Control blood glucose B11.3 Treating diabetes B11.4 Negative feedback (H) B11.5 Human reproduction B11.6 Menstrual cycle (H) B11.7 Artificial control of fertility B11.8 Infertility treatments	
	Genetics & reproduction	B12.1 Types of reproduction B12.2 Cell division in sexual reproduction B12.3 DNA & genome B12.4 Inheritance in action B12.5 More about genetics B12.6 Inherited disorders B12.7 Screening for genetic disorders	
	Variation and Evolution	B13.1 Variation B13.2 Evolution by natural selection B13.3 Selective breeding B13.4 Genetic engineering B13.5 Ethics of genetic techniques	
	Genetics and Evolution	B14.1 Evidence of Evolution B14.2 Fossils and extinction B14.3 More about Extinction B14.4 Antibiotic-resistant bacteria B14.5 Classification B14.6 New systems of classification	
	Adaptations, interdependence and competition	B15.1 The importance of communities B15.2 Organisms in their environment B15.3 Distribution and abundance B15.4 Competition in animals B15.5 Competition in plants B15.6 Adapt and survive B15.7 Adaptations in animals B15.8 Adaptations in plants	
	Organising ecosystem and	B16.1 Feeding relationships B16.2 Materials cycling B16.3 The carbon cycle	
	Biodiversity and Ecosystems	B17.1 The human population explosion B17.2 Land and water pollution B17.3 Air pollution B17.4 Deforestation and peat destruction B17.5 Global warming B17.6 Maintaining biodiversity	





Biology Revision List

SS separate science (SS)

Paper 2	Topic	Key information/ Links	Tick when completed
	The human nervous system	B10.1 Principles of homeostasis B10.2 Structure & function of nervous system B10.3 Reflex actions B10.5 The eye B10.6 Eye problems	
	Hormonal coordination	B11.1 Hormonal control B11.2 Control blood glucose B11.3 Treating diabetes B11.4 Negative feedback (H) B11.5 Human reproduction B11.6 Menstrual cycle (H) B11.7 Artificial control of fertility B11.8 Infertility treatments B11.9 Plant Hormones and responses B11.10 Using plant hormones (H)	
	Homeostasis in action	B12.1 Controlling body temperature B12.2 Removing Waste products B12.3 The human Kidney B12.4 Dialysis – an artificial kidney B12.5 Kidney transplants	
	Genetics & reproduction	B13.1 Types of reproduction B13.2 Cell division in sexual reproduction B13.3 The best of both worlds B13.4 DNA & genome B13.5 DNA structure and protein synthesis B13.6 Gene expression and mutation (H) B13.7 Inheritance in action B13.8 More about genetics B13.9 Inherited disorders B13.10 Screening for genetic disorders	
	Variation and Evolution	B14.1 Variation B14.2 Evolution by natural selection B14.3 Selective breeding B14.4 Genetic engineering B14.5 Cloning B14.6 Adult cell cloning B14.7 Ethics of genetic techniques	
	Genetics and Evolution	B15.1 The history of genetics B15.2 Theories of evolution B15.3 Accepting Darwin's Ideas B15.4 Evolution and speciation B15.5 Evidence for evolution B15.6 Fossils and extinction B15.7 More about Extinction B15.8 Antibiotic-resistant bacteria	





		B15.9 Classification	
	Adaptations, interdependence and competition	B16.1 The importance of communities B16.2 Organisms in their environment B16.3 Distribution and abundance B16.4 Competition in animals B16.5 Competition in plants B16.6 Adapt and survive B16.7 Adaptations in animals B16.8 Adaptations in plants	
	Organising an ecosystem	B17.1 Feeding relationships B17.2 Materials cycling B17.3 The carbon cycle B17.4 Rates of decomposition	
	Biodiversity and Ecosystems	B18.1 The human population explosion B18.2 Land and water pollution B18.3 Air pollution B18.4 Deforestation and peat destruction B18.5 Global warming B18.6 The impact of change B18.7 Maintaining biodiversity B18.8 Trophic levels and biomass B18.9 Biomass transfers B18.10 Factors affecting food security B18.11 Making food production more efficient B18.12 Sustainable food production	





CHEMISTRY combined science Revision Lists

Key: Combined science (CS) refer to combined science text book

	Topic	Key information/ Links	Tick when completed
CS <u>Rates, Equilibrium and Organic Chemistry</u>	C8 Rates and Equilibrium	C8.1 Rate of Reaction C8.2 Collision Theory and Surface Area C8.3 The Effect of Temperature C8.4 The Effect of Concentration and Pressure C8.5 The Effect of Catalysts C8.6 Reversible Reactions C8.7 Energy and Reversible Reactions C8.8 Dynamic Equilibrium C8.9 Altering Conditions (HT only)	
CS	C9 Crude Oil and Fuels	C9.1 Hydrocarbons C9.2 Fractional Distillation of Oil C9.3 Burning Hydrocarbon Fuels C9.4 Cracking Hydrocarbons	
CS <u>Analysis and Earth's Resources</u>	C10 Chemical Analysis	C10.1 Pure Substances and Mixtures C10.2 Analysing Chromatograms. C10.3 Testing for Gases	
CS	C11 The Earth's atmosphere	C11.1 History of our Atmosphere C11.2 Our Evolving Atmosphere C11.3 Greenhouse Gases C11.4 Global Climate Changes C11.5 Atmospheric Pollutants	
CS	C12	C12.1 Finite and Renewable Resources C12.2 Water Safe to Drink C12.3 Treating Waste Water C12.4 Extracting Metals from Ores (HT only) C12.5 Life Cycle Assessments C12.6 Reduce, Reuse and Recycle	





CHEMISTRY Separate Science Revision List

Refer to Chemistry separate science text book

	Topic	Key information/ Links	Tick when completed
		Paper 2 C8-C15	
<u>Rates, Equilibrium and Organic Chemistry</u>	C8 Rates and Equilibrium	C8.1 Rate of Reaction C8.2 Collision Theory and Surface Area C8.3 The Effect of Temperature C8.4 The Effect of Concentration and Pressure C8.5 The Effect of Catalysts C8.6 Reversible Reactions C8.7 Energy and Reversible Reactions C8.8 Dynamic Equilibrium C8.9 Altering Conditions (HT only)	
	C9 Crude Oil and Fuels	C9.1 Hydrocarbons C9.2 Fractional Distillation of Oil C9.3 Burning Hydrocarbon Fuels C9.4 Cracking Hydrocarbons	
	C10 Organic reactions	C10.1 Reactions of the alkenes C10.2 Structure of alcohols, carboxylic acids, and esters C10.3 Reactions and uses of alcohols C10.4 Carboxylic acids and esters	
	C11 Polymers	C11.1 Addition polymerisation C11.2 Condensation polymerisation (HT only) C11.3 Natural polymers C11.4 DNA	
<u>Analysis and Earth's Resources</u>	C12 Chemical Analysis	C12.1 Pure Substances and Mixtures C12.2 Analysing Chromatograms. C12.3 Testing for Gases C12.4 Tests for positive ions C12.5 Tests for negative ions C12.6 Instrumental analysis	
	C13 The Earth's atmosphere	C13.1 History of our Atmosphere C13.2 Our Evolving Atmosphere C13.3 Greenhouse Gases C13.4 Global Climate Changes C13.5 Atmospheric Pollutants	
	C14 The Earth's resources	C14.1 Finite and Renewable Resources C14.2 Water Safe to Drink C14.3 Treating Waste Water C14.4 Extracting Metals from Ores (HT only) C14.5 Life Cycle Assessments C14.6 Reduce, Reuse and Recycle	
	C15	C15.1 Rusting C15.2 Useful alloys	





	Using our resources	C15.3 The properties of polymers C15.4 Glass, ceramics, and composites C15.5 Making fertilisers in the lab C16.6 The economics of the Haber process (HT only) C15.7 Making fertilisers in lab C15.8 Making fertilisers in industry	
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PHYSICS Revision Lists

Key: Physics Combined science

	Topic	Key information/ Links	Tick when completed
		Paper 2 P8 to P13 Combined science	
CS <u>Forces in action</u>	P8 Forces in action	P8 Forces in balance P8.1 Vectors and scalars P8.2 Forces between objects P8.3 Resultant forces (<i>Force diagrams H</i>) P8.4 Centre of mass P8.5 The parallelogram of forces (H) P8.6 Resolution of forces (H)	
CS	P.9 Motion	P9 Motion P9.1 Speed and distance-time graphs P9.2 Velocity and acceleration (<i>Velocity of object moving in circles H</i>) P9.3 More about velocity-time graphs (<i>Area under V-T Graph H</i>) P9.4 Analysing motion graphs (<i>A D-T graph for changing speed/tangents H</i>)	
CS	P10. Forces and motion	P10 Forces and motion P10.1 Forces and acceleration (<i>Inertia H</i>) P10.2 Weight and terminal velocity P10.3 Forces and braking (<i>Deceleration H</i>) P10.4 Momentum P10.5 Forces and Elasticity	
CS <u>Waves and Electromagnets</u>	P11 Wave Properties	P11 Wave Properties P11.1 The nature of waves P11.2 The properties of waves P11.3 Reflection and Refraction P1.4 More about waves	
CS	P12 Electromagnetic Waves	P12 Electromagnetic Waves P12.1 The electromagnetic spectrum P12.2 Light, Infra-red, microwaves and radiowaves P12.3 Communication (<i>More about signals/carrier waves H</i>) P12.4 Ultraviolet waves, X-rays and radiowaves P12.5 X- rays in medicine (<i>X-ray strength imaging vs therapy H</i>)	
CS	P13 Electromagnetism	P13 Electromagnetism P13.1 Magnetic Fields P13.2 Magnetic fields of electric currents. P13.3 The motor effect.	





PHYSICS Revision List

Key: Separate science (SS)

	Topic	Key information/ Links	Tick when completed
		Paper 2 P8 to P16	
SS <u>Forces in Action</u>	P8 Forces in action	P8 Forces in balance P8.1 Vectors and scalars P8.2 Forces between objects P8.3 Resultant forces (<i>Force diagrams H</i>) P8.4 Moments at work P8.5 More about leavers and gears P8.6 Centre of mass P8.7 Moments and equilibrium P8.8 The parallelogram of forces P8.9 Resolution of forces	
SS	P9 Motion	P9 Motion P9.1 Speed and distance-time graphs P9.2 Velocity and acceleration (<i>Velocity of object moving in circles H</i>) P9.3 More about velocity-time graphs (<i>Area under V-T Graph H</i>) P9.4 Analysing motion graphs (<i>A D-T graph for changing speed/tangents H</i>)	
SS	P10 Forces and motion	P10 Forces and motion P10.1 Forces and acceleration (<i>Inertia H</i>) P10.2 Weight and terminal velocity P10.3 Forces and braking (<i>Deceleration H</i>) P10.4 Momentum P10.5 Using conservation of momentum P10.6 Impact forces P10.7 Safety first P10.8 Forces and elasticity.	
SS	P11 Force and Pressure	P11 Force and Pressure P11.1 Pressure and surfaces P11.2 Pressure and liquid at rest P11.3 Atmospheric Pressure (<i>Calculating Pressure H</i>) P11.4 Upthrust and flotation	
SS <u>Waves Electromagnets And space</u>	P12 Wave Properties	P12 Wave Properties P12.1 The nature of waves P12.2 The properties of waves P12.3 Reflection and Refraction P12.4 More about waves P12.5 Sound Waves P12.6 The uses of ultrasound P12.7 Seismic Waves	
SS	P13	P13 Electromagnetic waves P13.1 The electromagnetic spectrum	





	Electromagnetic Waves	P13.2 Light, infrared, microwaves and radio waves P13.3 Communications (<i>More about signals/carrier waves H</i>) P13.4 Ultraviolet waves, X-rays and gamma rays. P13.5 X-rays in medicine (<i>X-ray strength imaging vs therapy H</i>)	
SS	P14 Light	P14 Light P14.1 Reflection of light P14.2 Refraction of light P14.3 Light and colour P14.4 Lenses P14.5 Using lenses	
SS	P15 Electromagnetism	P15 Electromagnetism P15.1 Magnetic Fields P15.2 Magnetic fields of electric currents P15.3 Electromagnets in devices P15.4 The motor effect P15.5 The generator effect P15.6 The alternating-current generator P15.7 Transformers P15.8 Transformers in action	
SS	P16 Space	P16 Space P16.1 Formation of the Solar System P16.2 The life history of a star P16.3 Planets, satellites, and orbits. (<i>Centripetal force/satellites H</i>) P16.4 The expanding universe. P16.5 The beginning and future of the Universe	





History Revision List

Topic Title	Key information/ Links	Tick when completed
1. Medieval Medicine	<p>Natural; supernatural; ideas of Hippocratic and Galenic methods and treatments; the medieval doctor, training, beliefs about the cause of illness.</p> <p>Medieval medicine and progress The contribution of Christianity to medical progress and treatment; hospitals. The nature and importance of Islamic medicine and surgery. Surgery in the medieval times, ideas and techniques.</p> <p>Public health in the Middle Ages Towns and monasteries. The Black Death in Britain, beliefs about its causes, treatment and prevention.</p>	
2. Renaissance Medicine	<p>Challenge to medical authority in anatomy, physiology and surgery; the work of Vesalius, Paré, William Harvey; opposition to change.</p> <p>Dealing with disease Traditional and new methods of treatment; 'quackery'; methods of treating disease; Plague. The growth of hospitals; changes to the training and status of surgeons and physicians; the work of John Hunter.</p> <p>Prevention of disease Inoculation; Edward Jenner; Vaccination and opposition to change.</p>	
3. Industrial revolution medicine	<p>The development of Germ Theory and its impact on the treatment of disease in Britain The importance of Pasteur, Robert Koch and microbe hunting; Pasteur and vaccination; Paul Ehrlich and magic bullets; everyday medical treatments and remedies.</p> <p>A revolution in surgery Anaesthetics, including Simpson and chloroform. Antiseptics including Lister and carbolic acid; surgical procedures; aseptic surgery. Improvements in public health Public health problems in industrial Britain; cholera epidemics. Public health improvement including the 1848 and 1875 Public Health Acts. The role of public health reformers; local and national government involvement in public health.</p>	
4. Modern Medicine	<p>The development of the pharmaceutical industry; penicillin, its discovery by Fleming and its development; new diseases and treatments; antibiotic resistance; alternative medicine and treatments.</p> <p>The impact of war and technology on surgery Plastic surgery; blood transfusions; X-rays; transplant surgery; modern surgical methods, including lasers, radiation therapy and keyhole surgery.</p> <p>Modern public health</p>	





	<p>The importance of Booth, Rowntree and the Boer War; the Liberal social reforms; the impact of two world wars on public health, poverty and housing.</p> <p>The Beveridge Report and the Welfare State; creation and development of the National Health Service; costs, choices and the issues of healthcare in the 21st century.</p>	
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Geography Revision List

Topic Title	Key information/ Links	Tick when completed
1. Paper 1 – Question 1: The Challenge of Natural Hazards	Tectonic Hazards – plates, convection currents, distribution, cause/effect/response of earthquakes, Chile, and Nepal case studies, living with tectonic hazards, planning/prediction/protection/monitoring	
	Weather Hazards – atmospheric circulation, distribution of tropical storms, formation and structure, weather conditions in tropical storms, cause/effect/response of tropical storms. Typhoon Haiyan. Extreme UK weather.	
	Climate Change – evidence, effects, causes – human and natural, mitigation, and adaptation.	
2. Paper 1 – Question 2: The Living World	Ecosystems – roles, interdependence, change, and a small-scale ecosystem case study: Epping Forest.	
	Tropical Rainforests – Distribution, characteristics, adaptations, importance, deforestation, and sustainable management. Case study: Amazon rainforest	
	Hot Deserts – Characteristics, opportunities for, and challenges of development, desertification, and reducing desertification. Case study: Thar desert.	
3. Paper 1 – Question 3 and 4: Physical Landscapes of the UK	An overview of the location of major upland/lowland areas and river systems.	
	Coastal Landscapes – processes of erosion, deposition, and transportation. Landforms. Management strategies. Case study: Medmerry.	
	River Landscapes – processes of erosion, deposition, and transportation. Landforms. Management strategies. Case study: River Tees (landforms), Banbury (flooding)	





RE REVISION LIST – Paper 1

Topic Title	Key information/ Links	Tick when completed
ISLAMIC BELIEFS	<ul style="list-style-type: none"> The six articles of faith in Sunni Islam and five roots of Usul ad-Din in Shi'a Islam, including key similarities and differences. 	
	<ul style="list-style-type: none"> The nature of God: omnipotence, beneficence, mercy, fairness and justice (Adalat in Shi'a Islam), including different ideas about God's relationship with the world: immanence and transcendence. The Oneness of God (Tawhid), Qur'an Surah 112. 	
	<ul style="list-style-type: none"> Angels, their nature and role, including Jibril and Mika'il. 	
	<ul style="list-style-type: none"> Predestination and human freedom and its relationship to the Day of Judgement. 	
	<ul style="list-style-type: none"> Life after death (Akhirah), human responsibility and accountability, resurrection, heaven and hell. 	
	<ul style="list-style-type: none"> Prophethood (Risalah) including the role and importance of Adam, Ibrahim and Muhammad. 	
	<ul style="list-style-type: none"> The holy books: the Torah, the Psalms, the Gospel, the Scrolls of Abraham and their authority. 	
	<ul style="list-style-type: none"> Qur'an: revelation and authority 	
ISLAMIC PRACTICES	<ul style="list-style-type: none"> The imamate in Shi'a Islam: its role and significance. 	
	<ul style="list-style-type: none"> Five Pillars of Sunni Islam and the Ten Obligatory Acts of Shi'a Islam (students should study the Five Pillars and jihad in both Sunni and Shi'a Islam and the additional duties of Shi'a Islam). 	
	<ul style="list-style-type: none"> Shahadah: declaration of faith and its place in Muslim practice. 	
	<ul style="list-style-type: none"> Salah and its significance: how and why Muslims pray including times, directions, ablution (wudu), movements (rak'ahs) and recitations; salah in the home and mosque and elsewhere; Friday prayer (Jumma); key differences in the practice of salah in Sunni and Shi'a Islam, and different Muslim views about the importance of prayer. 	
	<ul style="list-style-type: none"> 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, Qur'an 96:1-5. 	
	<ul style="list-style-type: none"> Zakah: the role and significance of giving alms including origins, how and why it is given, benefits of receipt, Khums in Shi'a Islam. 	
	<ul style="list-style-type: none"> Hajj: the role and significance of the pilgrimage to Makkah including origins, how hajj is performed, the actions pilgrims perform at sites including the Ka'aba at Makkah, Mina, Arafat, Muzdalifah and their significance. 	
	<ul style="list-style-type: none"> Jihad: different understandings of jihad: the meaning and significance of greater and lesser jihad; origins, influence and conditions for the declaration of lesser jihad. 	
	<ul style="list-style-type: none"> Festivals and commemorations and their importance for Muslims in Great Britain today, including the origins and meanings of Id-ulAdha, Id-ul-Fitr, Ashura. 	
<ul style="list-style-type: none"> 		





Topic Title	Key information/ Links	Tick when completed
CHRISTIAN BELIEFS	<ul style="list-style-type: none"> The nature of God: God as omnipotent, loving and just, the oneness of God and the Trinity: Father, Son and Holy Spirit. 	
	<ul style="list-style-type: none"> The problem of evil and suffering 	
	<ul style="list-style-type: none"> Different Christian beliefs about creation including the role of Word and Spirit (John 1:1–3 and Genesis 1:1–3). 	
	<ul style="list-style-type: none"> Different Christian beliefs about the afterlife and their importance, including: resurrection and life after death; judgement, heaven and hell. 	
	<ul style="list-style-type: none"> Jesus Christ and salvation the incarnation and Jesus as the Son of God the crucifixion, resurrection and ascension 	
	<ul style="list-style-type: none"> Sin, including original sin 	
	<ul style="list-style-type: none"> The means of salvation, including law, grace and Spirit the role of Christ in salvation including the idea of atonement. 	
CHRISTIAN PRACTICES	<ul style="list-style-type: none"> Different forms of worship and their significance: liturgical, nonliturgical and informal, including the use of the Bible private worship. 	
	<ul style="list-style-type: none"> Prayer and its significance, including the Lord’s Prayer, set prayers and informal prayer. 	
	<ul style="list-style-type: none"> The role and meaning of the sacraments: the meaning of sacrament 	
	<ul style="list-style-type: none"> The sacrament of baptism and its significance for Christians; infant and believers’ baptism; different beliefs about infant baptism 	
	<ul style="list-style-type: none"> The sacrament of eucharist (Holy Communion) and its significance for Christians, including different ways in which it is celebrated and different interpretations of its meaning. 	
	<p>The role and importance of pilgrimage and celebrations including:</p> <ul style="list-style-type: none"> two contrasting examples of Christian pilgrimage: Lourdes and Iona 	
	<ul style="list-style-type: none"> The celebrations of Christmas and Easter, including their importance for Christians in Great Britain today. 	
	<ul style="list-style-type: none"> The role of the church in the local and worldwide community 	
	<ul style="list-style-type: none"> The place of mission, evangelism and Church growth. The role of the Church in the local community, including food banks and street pastors. 	
	<ul style="list-style-type: none"> The importance of the worldwide Church including: working for reconciliation how Christian churches respond to persecution the work of one of the following: Catholic Agency For Overseas Development (CAFOD), Christian Aid, Tearfund. 	
	<ul style="list-style-type: none"> 	





Computer Science Paper - Combined

Topic	Key information
1.1.1 Architecture of the CPU	The purpose of the CPU
	The fetch-execute cycle
	Common CPU components and their function:
	o ALU (Arithmetic Logic Unit)
	o CU (Control Unit)
	o Cache
	o Registers
	Von Neumann architecture:
	o MAR (Memory Address Register)
	o MDR (Memory Data Register)
	o Program Counter
o Accumulator	
1.1.2 CPU Performance	How common characteristics of CPUs affect their performance:
	o Clock speed
	o Cache size
	o Number of Cores
1.2.1 Primary storage (Memory)	The need for primary storage
	The difference between RAM and ROM
	The purpose of ROM in a computer system
	The purpose of RAM in a computer system
	Virtual memory
1.2.2 Secondary storage	The need for secondary storage
	Common types of storage:
	o Optical
	o Magnetic
	o Solid state
	Suitable storage devices and storage media for a given application
	The advantages and disadvantages of different storage devices and storage media relating to these characteristics:
	o Capacity
	o Speed
	o Portability
o Durability	





	<ul style="list-style-type: none"> o Reliability o Cost
1.2.3 Units	The units of data storage:
	<ul style="list-style-type: none"> o Bit o Nibble (4 bits) o Byte (8 bits) o Kilobyte (1000 bytes or 1 KB) o Megabyte (1,000 KB) o Gigabyte (1,000 MB) o Terabyte (1,000 GB) o Petabyte (1,000 TB)
	How data needs to be converted into a binary format to be processed by a computer.
	Data capacity and calculation of data capacity requirements
	Numbers
	How to convert positive denary whole numbers to binary numbers (up to and including 8 bits) and vice versa
	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur
	How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa
	How to convert from binary to hexadecimal equivalents and vice versa
	Binary shifts
1.2.4 Data storage	Characters
	The use of binary codes to represent characters
	The term 'character-set'
	The relationship between the number of bits per character in a character set, and the number of characters which can be represented, e.g.:
	<ul style="list-style-type: none"> o ASCII o Unicode
	Images
	How an image is represented as a series of pixels, represented in binary
	Metadata
	The effect of colour depth and resolution on:
	<ul style="list-style-type: none"> o The quality of the image o The size of an image file
	Sound
	How sound can be sampled and stored in digital form
	The effect of sample rate, duration and bit depth on:





	<ul style="list-style-type: none"> o The playback quality o The size of a sound file 	
1.3.1 Networks and topologies	Types of networks:	
	<ul style="list-style-type: none"> o LAN (Local Area Network) o WAN (Wide Area Network) 	
	Factors that affect the performance of networks	
	The different roles of computers in a client-server and a peer-to-peer network	
	The hardware needed to connect stand-alone computers into a Local Area Network:	
	<ul style="list-style-type: none"> o Wireless access points o Routers o Switches o NIC (Network Interface Controller/Card) o Transmission media 	
	The Internet as a worldwide collection of computer networks:	
	<ul style="list-style-type: none"> o DNS (Domain Name Server) o Hosting o The Cloud o Webservers and Clients 	
	Star and Mesh network topologies	
	1.3.2 Wired and wireless networks, protocols and layers	Modes of connection:
		<ul style="list-style-type: none"> o Wired <ul style="list-style-type: none"> • Ethernet o Wireless <ul style="list-style-type: none"> • Wi-Fi • Bluetooth
		Encryption
		IP addressing and MAC addressing
		Standards
		Common protocols including:
		<ul style="list-style-type: none"> o TCP/IP (Transmission Control Protocol/Internet Protocol) o HTTP (Hyper Text Transfer Protocol) o HTTPS (Hyper Text Transfer Protocol Secure) o FTP (File Transfer Protocol) o POP (Post Office Protocol) o IMAP (Internet Message Access Protocol) o SMTP (Simple Mail Transfer Protocol)
The concept of layers		





1.4.1 Threats to computer systems and networks	Forms of attack
	o Malware
	o Social engineering, e.g. phishing, people as the 'weak point'
	o Brute-force attacks
	o Denial of service attacks
	o Data interception and theft
	o The concept of SQL injection

Topic	Key information
2.1.2 Designing, creating and refining algorithms	Identify the inputs, processes, and outputs for a problem
	Structure diagrams
	Create, interpret, correct, complete, and refine algorithms using:
	o Pseudocode
	o Flowcharts
	o Reference language/high-level programming language
	Identify common errors
2.1.3 Searching and sorting algorithms	Trace tables
	Standard searching algorithms:
	o Binary search
	o Linear search
	Standard sorting algorithms:
	o Bubble sort
o Merge sort	
o Insertion sort	
2.2.2 Data types	The use of data types:
	o Integer
	o Real
	o Boolean
	o Character and string
o Casting	
2.2.3 Additional programming techniques	The use of basic string manipulation
	The use of basic file handling operations:
	o Open
	o Read
	o Write
	o Close
	The use of records to store data
The use of SQL to search for data	





	The use of arrays (or equivalent) when solving problems, including both one-dimensional (1D) and two-dimensional (2D) arrays
	How to use sub programs (functions and procedures) to produce structured code
	Random number generation
2.4.1 Boolean logic	Simple logic diagrams using the operations AND, OR and NOT
	Truth tables
	Combining Boolean operators using AND, OR and NOT
	Applying logical operators in truth tables to solve problems

