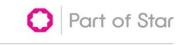


EDEN BOYS' LEADERSHIP ACADEMY YEAR 11 MOCK EXAMINATIONS INFORMATION PACK NOVEMBER/DECEMBER 2022

Eden Boys' Leadership Academy, Birmingham East | 441 Alum Rock Road, Birmingham B8 3DT 0121 657 7200 | info@ebbhameast.staracademies.org | edenboysbirminghameast.com









Dear Parent/Guardian,

Assalaamu Alaikum – 'Peace be upon you'

RE: Year 11 Mock Exams

In preparation for their upcoming GCSE exams in May 2023, all year 11 classes will be completing mock exams starting from **Monday 21**st **November 2022.**

The majority of the exams will take place in the hall and will mimic the procedures used for real GCSE exams.

The full timetable is enclosed with this letter. Please ensure that you keep this in a prominent place so that you can ensure your son prepares properly for his assessments.

It is important that students spend time revising and preparing for these upcoming exams and, in order to do this, they should be spending **at least 3 hours per night revising**. It is therefore vital that your son prepares thoroughly for these exams.

The full topic lists for revision are attached in this pack. Your son should also make sure that he has all his necessary exercise books/notes and knowledge organisers to hand in order to revise effectively.

On the day of the examinations, your son must ensure that he comes to school properly equipped, and this includes a scientific calculator, at least two black pens, pencils, ruler, protractor, sharpener and eraser.

Your son's Autumn 2 Report Card will be distributed on the first week back in January 2023. It will include a summary of your child's attitude to learning, as well as his end of course predicted grade in each of his subjects.

Should you have any questions regarding the assessment process, please contact the school.

Yours sincerely,

Miss F Akthar ARR

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FULL TIMETABLE (Monday 28th November-Friday 2nd December)

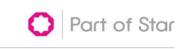
Service 1	Socion 2	Socion 2
<u>Session 1</u> (8.00am-10.05am)	<u>Session 2</u> (10.20am -12.20pm)	<u>Session 3</u> (1pm-3.10pm)
MONDAY 21 st November	<u>(10.20011 12.20011)</u>	
French/Arabic Urdu Paper 2 Speaking	French/Arabic Urdu Paper 2 Speaking	French/Arabic Urdu Paper 2 Speaking
(Foundation and Higher)- time slot will	(Foundation and Higher)- time slot will	(Foundation and Higher)- time slot will
be assigned	be assigned	be assigned
8 students Arabic	8 students Arabic	8 students Arabic
8 Students French	8 Students French	8 Students French
8 Students Urdu	8 Students Urdu	8 Students Urdu
Urdu 1	9 students, French 50 students, Arabic 50 s	tudents
TUESDAY 22 nd November		
French/Arabic Paper 2 Speaking	French/Arabic Paper 2 Speaking	French/Arabic Paper 2 Speaking
(Foundation and Higher)- time slot will	(Foundation and Higher)- time slot will	(Foundation and Higher)- time slot will
be assigned	be assigned	be assigned
8 students Arabic	8 students Arabic	8 students Arabic
8 Students French	8 Students French	8 Students French
8 Students Urdu	8 Students Urdu	8 Students Urdu
Urdu 1	9 students, French 50 students, Arabic 50 s	tudents
MONDAY 28 th November		
MONDAT 20 November		
Fuelish Longuege Depend (1hr 4Fueins)		Den en 1. Commuten austerne
English Language Paper 1 (1hr 45mins)	Biology paper 1 (separate science)	Paper 1 - Computer systems
	(1hr 45mins) Biology (combined) paper 1 (1hr 15mins)	1hr 30 mins Imedia students P5 and 6 revising
	119 students	science
	Combined papers students -finishing	science
	early – in reflection hall to be supervised	
	by LC	
TUESDAY 29 th November		
Chemistry paper 1 (separate science)	English Language Paper 2 (1hr 45mins)	Geography Paper2 – challenges in the
(1hr 45mins)		human environment (1 hour)
Chemistry (combined) paper 1 (1hr		History Paper 2 Paper 2 Health and the
15mins)		People (1 hour)
		P6 Teachers collect pupils from hall – they
		will revise for maths in their lesson
WEDNESDAY 30 th November		
Maths Paper 1- non-calculator (1hr 30	English Literature paper 2 (1hr 45mins)	Physics paper 1 (separate science)
mins) – 119 students		(1hr 45mins)
		Physics (combined) paper 1 (1hr 15mins)
		Combined papers students -finishing early
		– in reflection hall to be supervised by LC

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THURSDAY 1 st December				
Maths Paper2- calculator (1hr 30 mins)	Paper 2 – Computer Science - Computational thinking, algorithms and programming Rest of students I media - revision for science – in timetabled lessons	 Paper 1: Reading and understanding in A - French– 50 minutes Paper 1: Reading and understanding in Arabic – 50 minutes Paper1 Reading and understanding Urdu – 50 minutes Last period – P6 teachers to collect from hall and take back to lesson – revise for maths paper 		
FRIDAY 2 nd December – (Friday Timings a	oply – 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 Paper 3- calculator (1hr 30 mins) Have a break after Maths exam – LC to supervise (20 minutes)	Religious Education P1 Islam, Beliefs and practices and Christian beliefs (1hr 10 mins) 15 Minute break - LC to supervise	Geography Paper 1: Living with the Physical Environment (1 hour 30 mins) History Paper 1- Conflict and tension (1hour) When History students complete their exam – they will be dismissed to go home		
MONDAY 5 th December				
	Art and Design Final Piece – 10 Hrs			
TUESDAY 6 th December				
Art and Design Fi	nal Piece – 10 Hrs	Art students to go back to P5 and P6		
WEDNESDAY 7 th December				
BTEC Sports – Selected pupils completing Units – 1-3				





RULES FOR MOCK EXAMS

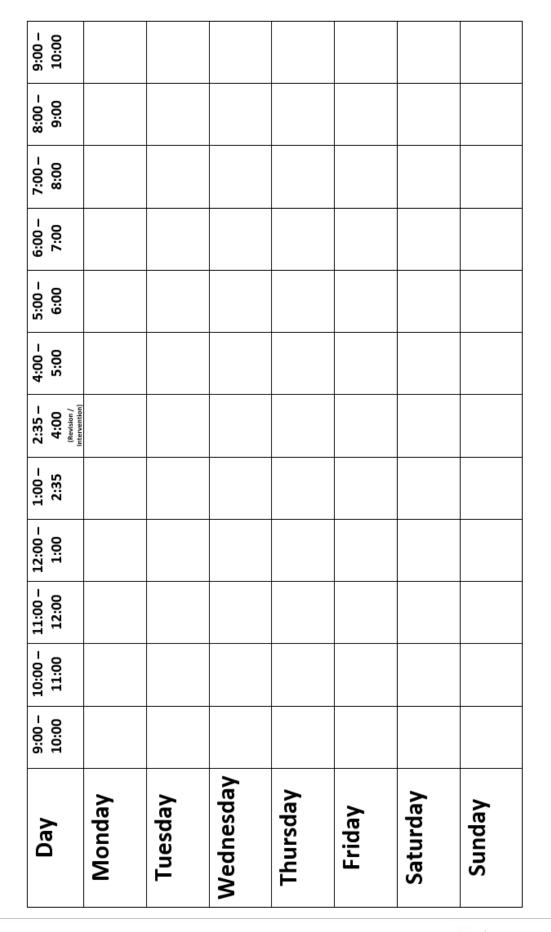
- > You MUST have your lanyard if you do not have it, we will not let you into the exam
- > You MUST sit in the correct seating plan. Your name card will be on your desk.
- > You MUST be in correct uniform
- You MUST have all your equipment that you will need this could include calculators (without the cover), BLACK pens, spare pens, ruler, pencil etc.
- > Your pencil case MUST be clear, please only bring in the necessary equipment.
- > If you bring in a water bottle it MUST be clear
- > You MUST listen to the invigilators instructions at the start
- > You MUST read the instructions on the front of the paper and fill in the information accurately
- > You MUST NOT have your phone or ANY electrical devices on you- that includes smart watches, headphones
- > You MUST NOT have any of your notes in your pockets
- > You MUST NOT look around the exam room focus on your own desk and your own work at all times.
- You MUST NOT leave anything of value in your bag including money hand it to your Head of Year before the exam
- > You MUST NOT wear a wrist watch of any kind.

IF...

- > If you are too ill to do your exam you must contact the school as soon as possible
- If you think there is a problem with your exam paper raise your hand and tell the invigilator you MUST continue with the paper you have been given
- > If you think you see someone else cheating raise your hand and report it to the invigilator
- > If you need to leave the room for the bathroom or if you are feeling unwell raise your hand and tell the invigilator. You will be escorted to the appropriate place.
- If you think you have finished go back and check your work thoroughly can you read your writing? Have you checked the spelling and grammar? Have you crossed out anything you do not want to be considered as part of your answer?

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Revision Method	Always	Sometimes	Never
Reading Through Class Notes			
Using resources on the J Drive			
Using Course Textbooks			
Mind maps / Diagrams			
Making / Re-making Class Notes			
Highlighting / Colour Coding		ĺ.	
Flashcards		6 (S) (S)	
Using a Revision Wall to Display your Learning			
Writing Exam Answers Under Timed Conditions			
Reading Model Answers			
Using Past Exam Questions & Planning Answers			
Marking Your Own Work to a Mark Scheme			
Studying Mark Schemes or Examiners Report			
Working With Other Students in Groups / Pairs			
Comparing Model Answers Against Your Own Work			
Creating Your Own Exam Questions			
Handing in Extra Exam Work for Marking			
One to One Discussions with Teachers / Tutors			

Red = Content Techniques Orange = Skills Techniques Green = Feedback Techniques

Task:

Answer the questionnaire based on your own revision techniques.

Now plan out what methods you would like to use and for which topic in a specific subject and try it this week to see if it helps.

Revision Tips

1. Make revision ACTIVE

- Write revision notes.
- Read notes out aloud to yourself, or others. •
- Record key points onto your iPod, MP3 player, phone.
- Discuss topics with a friend. •
- Test yourself.
- ٠ Past exam questions.
- Use revision websites.

Just reading through your notes will <u>not do the job</u>, this is a very passive method of revision!

- 2. Short bursts of revision (30-40 minutes) are most effective. Your concentration lapses after about an hour and you need to take a short break (5-10 minutes)
- 3. Find a quiet place to revise your bedroom, school or library refuse to be interrupted or distracted.
- 4. Make sure you don't just revise the subjects and topics you like. Work in your weaker ones as well.
- 5. Make your own revision notes because you will remember what you have written down more easily. Stick key notes to cupboards or doors so you can see them everyday.

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- 6. You will need help at some stage, ask parents, older brothers and sisters, teachers or friends. Use Teams to communicate with teachers and clarify points as they arise. Use websites specifically designed for revision.
- 7. Don't get stressed out! Eat properly and get lots of sleep!

8. Believe in yourself and be positive.

9. Revise with the exam in mind

You and your teachers will both know what you are going to be tested on, it "s in the specification! Why not get hold of a copy of this so as you can see what you will need to know. Remember, you know what you don't know, what are you going to do to learn it?

- Use the appropriate past paper questions to help you, your teacher will have lots of these.
- Have a go at writing outline answers, this allows you to explore they key concepts surrounding a topic and allows you to structure an answer more easily.
- Practice in exam conditions (time and setting e.t.c.), this will allow you to experience how much time you actually have and how quickly you will need to work.
- Try the more difficult exam questions to push yourself and test your knowledge. It is no good simply having a go at the answers that you know you can answer! This is the easy way out.

The Revision Power Hour- make your revision EFFECTIVE

1. Choose a past paper question

First, you need to <u>find a past paper question</u> to answer (and the mark scheme). You'll use Google to do this. **Pro tip:** spend some time printing off all the past paper questions for each subject and filing them neatly so you've got them to hand.

2. Revise

Set a timer and spend 20 minutes revising what you need to know to answer the question you've chosen. This might be anything from <u>quotes for your closed book English exam</u> to facts for science of Geography. If you're looking for ways to revise here are <u>6 revision techniques</u> you might like to try. There are another 40 in my book, <u>The Ten Step Guide to Acing Every Exam You Ever Take</u>.

3. Do the question

Set the timer again for 20 minutes and answer the past paper question you chose.

4. Mark your answer

Use the <u>mark scheme</u> you found in step 1 to mark your work.

This step is crucial. If you really want to excel in your exams you need to be able to think like an examiner. Marking your own work is essential if you're going to do this.

5. Get feedback

If you're unsure of how accurate your marking is or you want to know how you can improve show your work to your teacher. Ask them for feedback on how to improve.

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Again, this step is really important if you want to make continuous improvements to your exam technique (and therefore your marks) during the revision period.

What if I run out of past papers? This can happen if you do a lot of power hours.

However, when you've done that many past papers you're in a great position. By now, you should be able to think like an examiner and it will be easy to invent your own questions.

When you do revision power hours consistently you will soon see your marks and your confidence increase. You'll be walking into all your exams with your head held high, impatient to show off what you can do!

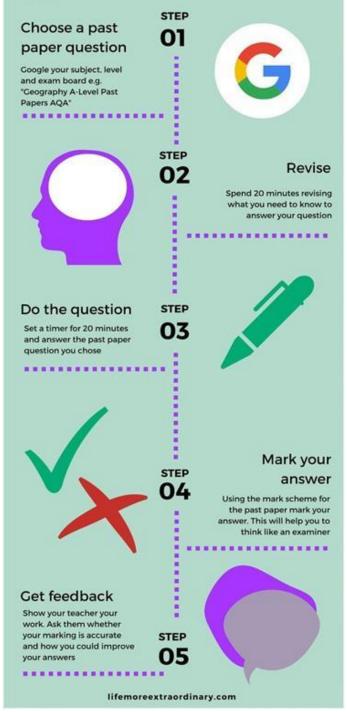
Common Command Words

Command words are the words and phrases used in exams that tell students how they should answer a question. Balance

Students need to balance a chemical equation.

Revision **POWER HOUR**

Get the most out of your revision with a power hour. Here's a step-by-step of how to do it.



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Calculate

Students **should use numbers** given in the question to work out the answer.

Choose

Select from a range of alternatives.

Compare

This requires the student to describe **the similarities and/or differences** between things, not just write about one.

Complete

Answers should be written in the space provided, for example, on a diagram, in spaces in a sentence or in a table.

Define

Specify the meaning of something.

Describe

Students may be asked to recall some facts, events or process in an accurate way.

Design

Set out how something will be done.

Determine

Use given data or information to obtain and answer.

Draw

To produce, or add to, a diagram.

Estimate

Assign an approximate value.

Evaluate

Students should use the information supplied, as well as their knowledge and understanding, to consider evidence for and against when making a judgement.

Explain

Students should make something clear, or state the reasons for something happening.

Give

Only a short answer is required, not an explanation or a description.

How/ What/ When/ Where/Which/ Who/ Why

These can be used for more direct questions.

Identify

Name or otherwise characterise.

Justify

Use evidence from the information supplied to support an answer.

Label

Provide appropriate names on a diagram.

Measure

Find an item of data for a given quantity.

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Name

Only a short answer is required, not an explanation or a description. Often it can be answered with a single word, phrase or sentence.

Plan

Write a method.

Plot

Mark on a graph using data given.

Predict

Give a plausible outcome.

Show

Provide structured evidence to reach a conclusion.

Useful revision websites

Sketch

Draw approximately.

Suggest

This term is used in questions where students need to apply their knowledge and understanding to a new situation.

Use

The answer must be based on the information given in the question. *Unless the information given in the question is used, no marks can be given*. In some cases students might be asked to use their own knowledge and understanding.

Write

Only a short answer is required, not an explanation or a description.

https://senecalearning.com/en-GB/ - all	
subjects <u>https://www.bbc.co.uk/bitesize</u> - all	
subjects	
https://quizlet.com/en-gb - all subjects (free quizzes)	
https://revisionworld.com/gcse-revision - most subjects https://studywise.co.u	<u>ık/</u>
- most subjects	
https://cognitoresources.org/home - science and maths	
https://www.stairwaylearning.com/ - science and maths (can also be download	ded as an App)
https://www.primrosekitten.com/collections/gcse -	science
https://www.examsolutions.net/gcse-maths/ -	maths
https://www.mathsgenie.co.uk/gcse.html - maths	
https://www.sparknotes.com/ - English Literature (other subjects available)	

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English REVISION LIST

English Literature: Inspector Calls

Main Topic	I am able to	Tick when completed
Context: social	Define socialism and link it to the play	
and historical	Define capitalism and link it to the play	
	Explain the significance and impact of the two World Wars on 'An Inspector Calls'	
	Explain what happened to the Titanic and why it is important to understand	
	Explain what the 'Great Depression' was and how it affected the UK	
	Confidently link this context to the play	
Context: the	Name the writer of the play	
writer	Recall key details about the writer's life	
	Explain the writer's key 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	
Characte	Explain how this character is presented	
r: Mr	Use key vocabulary to describe the character	
Birling	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:	Explain how this character is presented	
Mrs	Use key vocabulary to describe the character	
Birling	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:	Explain how this character is presented	
Sheila	Use key vocabulary to describe the character	
Birling	Recall quotations to support these ideas	
	Explain what each of these quotations means	

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Analyse devices used in each of these quotations	
Link ideas about character to the key themes of the play	

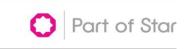
Character: Eric	Explain how this character is presented	
Birling	Use key vocabulary to describe the character	
	Recall quotations to support these ideas	
	Explain what each of these quotations means	
	Analyse devices used in each of these quotations	
	Link ideas about character to the key themes of the play	
Character: Gerald	Explain how this character is presented	
Croft	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:	Explain how this character is presented	
Inspector Goole	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	
Themes:	Explain what this theme is/means	
Capitalism/	Explain where it is seen in the play	
Socialism	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes:	Explain what this theme is/means	
Social	Explain where it is seen in the play	
Responsibility	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes:	Explain what this theme is/means	
Social Class	Explain where it is seen in the play	
	Recall relevant quotations to this theme	
	Explain why the writer has used this theme	
Themes:	Explain what this theme is/means	
Age/generation	Explain where it is seen in the play	
gap	Recall relevant quotations to this theme	





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	Explain why the writer has used this theme	
Themes:	Explain what this theme is/means	
Gender	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

English Literature: Power and Conflict Poetry

Main Topic	I am able to	Tick when completed
Ozymandias – Percy	Explain how Ozymandias was like as a person (label the	
Shelley	terminology) (AO1)	
	Explain What has happened to Ozymandias' statue (AO1)	
	Recall by looking at lines 13 and 14 and explaining that is the	
	area around the ruined statue like. Use quotes to support	
	your comments. (AO1)	
	Explain why the narrator hasn't actually seen the ruin, and	
	why he is just told about it. What impact does this have on	
	Ozymandias' power/command? (AO3)	
	Explain what message Shelley is sending about power and	
	control and how long it lasts (AO1/AO3)	
	Explain what form the poet has written in (AO2)	
	Explain what you notice about the rhyme scheme and how	
	this links to decay and the decline of power (AO2)	
	Explain the context of the poem by analysing how it links to:	
	Strength of nature	
	 Critical of government and tyranny 	
	 Power doesn't last/pride comes before a fall 	
London – William Blak	e Summarise stanza 1 (AO1) by including a quote, the	
	technique and how this affects the reader (F.I.T) > (AO2)	
	Summarise stanza 2 (AO1) by including a quote, the	
	technique and how this affects the reader (F.I.T) > (AO2)	
	Summarise stanza 3 (AO1) by including a quote, the	
	technique and how this affects the reader (F.I.T) > (AO2)	
	Summarise stanza 4 (AO1) by including a quote, the	
	technique and how this affects the reader (F.I.T) > (AO2)	
	Explain the rhyme & structure of the poem whilst being able	
	to link it back to the theme i.e. control	
	Summarise what influenced the poem and what London was like. (AO3)	
	Explain what message Blake was sending about those in	
	power and their effect on London (AO3)	

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	Explain what influenced the poet (AO3)	
Wordsworth	Summarise lines 1-20 (AO1)	
	List 4 language devices that are used (AO2)	
	Explain what impression is created of the mountain	
	How does Wordsworth feel?	
	Explain what effect nature have over Wordsworth from lines	
	31 –the end (AO1)	
	Explain how the poem is structured (AO2)	
My Last Duchess Robert Browning	Explain what impression is created of the duchess? (AO1)	
NODELL DIOWNING	Summarise what the Duke thinks of her behaviour	
	Explain how the Duke is controlling/possessive using quotations	
	Explain how the Duke is dangerous using quotations	
	Explain how the Duke is arrogant using quotations	
	Explain how the Duke is materialistic using quotations	
	Explain how the Duke is jealous using quotations	
	Summarise the background (AO3)	
	Identify 5 language devices that have been used (AO2)	
	How does the poem link to power and conflict?	
	How is the poem structured and why? (AO2)	
	Summarise the poem (AO1)	
Brigade - Alfred Tennyson	Summarise the real Charge of the Light Brigade (AO3)	
	Identify quotes with repetition and its effects	
	Identify quotes with verbs and its effects	
	Identify quotes with metaphors and its effects	
	Identify quotes with rhyme and rhythm and its effects	
	Explain what impression Tennyson creates of war and battle	
	Explain what impression he creates of soldiers	

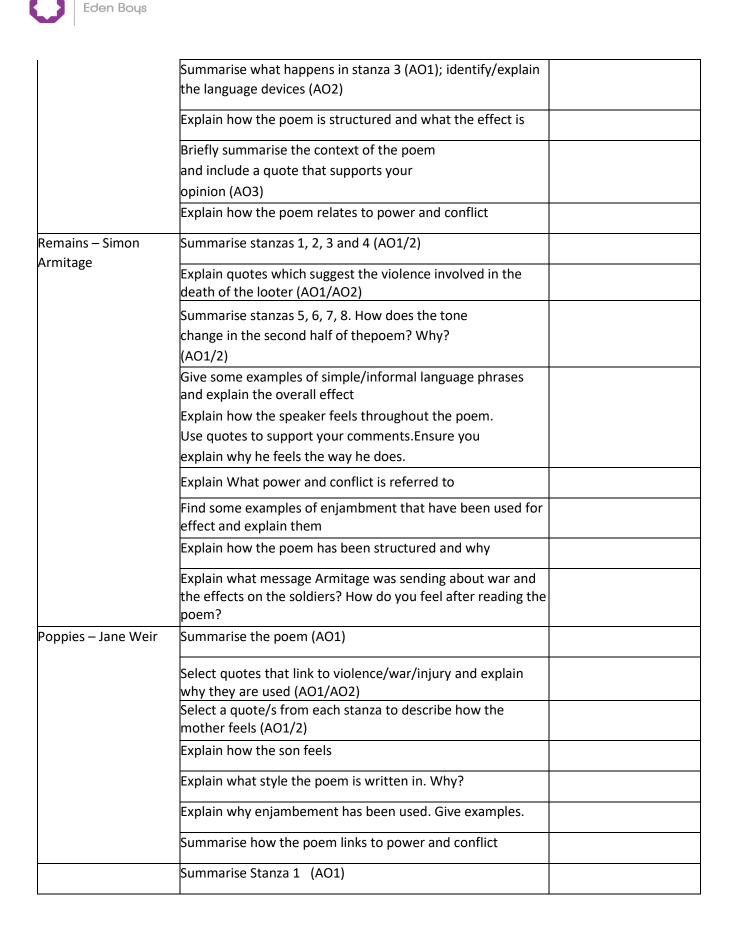




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	Explain how the poem is structured	
	Summarise how the poem links to power and conflict	
Exposure – Wilfred Own	Select 2 quotes that describes the weather conditions and explain their effect (AO1/2)	
	Explain how the 5 senses affect the reader	
	Explain how the poem's been structured and why	
	Link the context point below to a quote:	
	• Owen wrote the poem to describe the experienceof being in the trenches during the freezingwinter of 1917	
	Link the context point below to a quote:	
	Wilfred Owen was a soldier in WWI and personally experienced what war was like	
	Link the context point below to a quote:	
	• He wanted to make people at home aware of the realities of war.	
Storm on the Island – Seamus Heaney	Summarise lines 1-5 and explain the language devices (AO1/2)	
	Summarise lines 6-10 and explain the language devices (AO1/2)	
	Summarise lines 11-16 and explain the language devices (AO1/2)	
	Summarise lines 16-the end and explain the language devices (AO1/2)	
	Explain how the reaction to the storm changes throughout the poem (AO1)	
	Explain how the poem is about power and conflict?	
	Explain what message Heaney was sending about the power of nature? (AO1)	
	How formal is the poem? Why? (AO2)	
Bayonet Charge – Ted	Summarise what happens in stanza 1 (AO1); identify/explain the language devices (AO2)	
Hughes	Summarise what happens in stanza 2 (AO1); identify/explain the language devices (AO2)	









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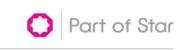
		1
War Photographer – Carol Ann Duffy	Select 2 quotes that have the greatest impact on the reader (AO1/AO2)	
	Summarise stanza 2 (AO1)	
	Select 2 quotes that have the greatest impact on the reader	
	Summarise Stanza 3 (AO1)	
	Select 2 quotes that have the greatest impact on the reader	
	Summarise stanza 4 (AO1)	
	Select 2 quotes that have the greatest impact on the reader	
	Explain how you think the photographer feels. Select two quotes to support your opinion	
	Explain what message Duffy is sending the	
	reader about war. How does she want the	
	reader to feel? Select two quotes that support	
	your comments (AO1/3)	
	Explain how the poem links to power and	
	conflict	
	Explain how the poem is structured and why	
Tissue –Imtiaz Dharker	Summarise stanzas 1, 2, 3 (AO1/2)	
	Summarise stanzas 4, 5, 7, 6 (AO1/2)	
	Explain the structural devices that have been used	
	(enjambment, change in person, free verse)	
	Explain the tone and message of the poem	
	Explain how the poem links to power	
The Emigree – Carol	Explain the positive and negative atmosphere in Stanza 1	
Rumens	Explain the positive and negative atmosphere in Stanza 2	
	Explain the positive and negative atmosphere in Stanza 3	
	Summarise the poem	
	Explain how the poem is structured and why	
	Explain whether it is power or conflict that is being referred to using quotes	





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Kamikaze – Beatrice	Explain what a kamikaze is and can use a quote from stanza	
Garland	one to support this	
	Select quotes that used effective imagery from stanzas 2-5 (AO2)	
	Select quotes that link to her father's family/happy memories (AO1/2)	
	Explain how the pilot was treated and why	
	Explain what structural devices have been used i.e. (Enjambment, change in person, free verse)	
	Explain what sort of power and conflict is referred to. Select a quote for each (AO1/3)	
	Explain what the tone and message of the poem is	
Checking Out Me History – John Agard	Explain what the following metaphors suggest about what has happened during Agard's education	
	Select 2 quotes for Touissant and 2 for Mary Seacole to explain the impression created	
	Explain why Agard has used phonetic spelling (include some examples) (AO2/3)	
	Explain why the following phrases are repeated (AO2)	
	Dem tell meDem never tell me	
	Explain how Agard feels and why. Include quotes to support your answer (AO1/3)	
	Explain what rhyme and rhythm have been used and what is the effect (AO2)	
	Explain how the poem is structured and why	
	Explain the message Agard is sending the reader	
	Explain how the poem links to either power or conflict	





English REVISION LIST

English Literature: Unseen Poetry

Main Topic	I am able to	Tick when completed
The Reading Box	Reading Boxes: The First Box	
Approach: Unseen	Read the title, scan over the poem on the page and take in its	
Poetry	shape and the white spaces; then read the poem aloud. In the	
	first box, capture initial reactions, likes/dislikes, including	
Poems to try this	notes on what the poem is <i>literally</i> about.	
approach with:	Reading Boxes: The Second Box	
	Read the poem for a second time. This second read is about	
• 'Mother to Son'	noticing and questioning. Make further notes on this in the	
by Langston	second box. Useful questions to ask might be: What questions	
Hughes (1922)	do you have or what is puzzling you? What do you notice as	
 'A Birthday' by Christina Rossetti 	you read? What patterns or repeats do you notice? (in	
(1862)	words/phrases/images/rhyme and rhythm)	
(1002)	Reading Boxes: The Third Box	
	Consider what you think the poet is saying and why the poem	
	was written. Jot these thoughts down in the outer box. Useful	
	questions to ask: What is the message of the poem? What	
	does the poem make you think or see something differently?	
	How does the text relate to yourself, other texts you have read	
	or the world/big ideas?	
The Flash Reading	First burst – look at the shape of the poem and the title. Jot	
Approach: Unseen	down what they notice and think.	
Poetry		
	Second burst – consider the opening and ending of the poem;	
Poems to try this	what do they think?	
approach with:	Third burst – scan the poem, what words/phrases/patterns do	
	they notice?	
'Anthem for		
Doomed Youth'	Draw a grid and make notes on what I like/dislike/questions	
by Wilfred Owen	and puzzles/patterns (this simple grid -based on an approach	
(1920)	pioneered- encourages you to think about a poem, have an	
	opinion and start to justify it in a structured way). This grid	
	can also be used by itself as a way-in to starting to respond to	
	and interrogate a poem.	
The Active Reading	Consider the meaning(s) of the title	
Approach: Unseen	Think about first and last lines	
Poetry		
Booms to try this	Pick out three vivid/'stand out' words/phrases	
Poems to try this approach with:	Highlight emotive words	

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	Find examples of imagery	
 'Grief' by Kayo Chingonyi 	Highlight verbs	
• 'The Truth About		
	Circle punctuation	
Gill In My Country' by	Highlight structural features	
Jackie Kay • 'Hadrian's Wall' by	Highlight alliteration, assonance, onomatopoeia.	
Daljit Nagra	Noticing things and consider why it stands out i.e. Patterns emerging, or make connections between a phrase and use of alliteration (for example) and start to see how language and structure are working together to make meanings.	
How to Explore Titles: Unseen Poetry	Make predictions about what poem will be about simply from the title.	
Poems to try this		
approach with:	Read the poems with the titles removed and then generate a	
 'In My Country' – Jackie Kay 	title for each poem after reading and explain choice of title.	
 'The Voice' – Thomas Hardy 		
 'A Poison Tree' – 		
William Blake		
How to Unlock	Find an image of a tree. What can you see? Write your	
Implied Meanings:	descriptions of literally what the tree looks like. Then ask what	
Unseen Poetry	a tree might represent or be a metaphor for (eg life/growth,	
	survival, power etc.) Give a reason for ideas.	
Poems to try this	Read 'A Poison Tree' by William Blake. Quickly write down a	
approach with:	summary of the literal, surface content of the poem.	
'A Poison Tree' –	Imagine you are the speaker of the poem, write down or	
William Blake	explain to each other the story of the poem. Focus on the	
	feelings and the overall message of the poem. What do they	
	think the point being made might be? Explain what might happen if you dwell on a negative emotion	
	rather than dealing with it? Think of as many synonyms for	
	'anger' as you can, in order to deepen exploration of the ideas	
	being expressed i.e. note 'anger' in the middle of a page and	
	note down as many synonyms around it (note – having a	
	vocabulary for discussing the intent and tone of a poem is	
	important, so taking opportunities to explore the nuances of	
	different words for emotions is a useful strategy to repeat at	
	other times when teaching).	
	Consider the following:	





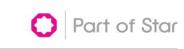
Eden Boys	
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	'A Poison Tree' is from Songs of Experience, a collection which	
	tends to focus on ideas about humanity after the fall of man.	
	Which of the seven deadly sins might Blake be using 'A Poison	
	Tree' to explore? Try to read 'London' which is also from the	
	same collection.	
	Go back to ideas about a tree. Why might Blake have used the	
	image of a tree to develop his ideas about anger?	
	Compare the poet's portrayal of negative emotions with 'The	
	Truth About Monsters' by Nikita Gill	
Exploring Images	Look at an image of a rose growing out of concrete. What can	
and Meanings:	you see? What could this image mean? Why is a rose growing	
Unseen Poetry	out of concrete surprising and positive as an image?	
	Explain how imagery is not only visual but can be used	
Poems to try this	figuratively. Think about another image: 'watered shoot'. How	
approach with:	much can you say about this image? What happens to a shoot	
	when it is watered? Why does a shoot need water? What does	
 'A Birthday' by 	watering a shoot suggest about the person doing the watering?	
Christina Rossetti	Read 'A Birthday'. Highlight all the positive images. What	
(1862)	connects these images? Aim to guide yourself towards the idea	
• 'The Rose That	that the majority of the images focus on the idea of	
Grew Out of	nature/growth.	
Concrete' – Tupac Shakur	Look at the first and last line of the poem; together, these	
Shakur	summarise the overall point being made. Write for five	
	minutes about the image 'watered shoot', aiming to link it to	
	the overall meaning of the poem.	
	Read 'A Birthday' and the 'Rose That Grew Out of Concrete'.	
	Highlight the positive words/phrases in both. Choose one word	
	or phrase from each poem that sums up the positivity in the	
	poem. Place these side by side on a blank page. Draw a circle	
	around each (see the Venn diagram). Begin by annotating both	
	phrases separately. Then, in the middle of the Venn diagram,	
	note where there are similarities between both images. Write	
	a paragraph comparing the two quotes.	
	Write a sentence explaining:	
	 why poets might choose to use imagery in their poems 	
	 how images help the reader to understand ideas in the 	
	poem.	
Exploring Structure	Read the title only and predict what the poem may be about.	
and Patterns:	Read the opening line and the final line. Reflect on i) how these	
Unseen Poetry	lines could link to the title; ii) how the opening and the ending	
	lines link to each other and iii) what may have taken place in	
Poems to try this	the space between these lines	
approach with:	Read the poem in full and explore how the title, opening and	
	ending help to frame and structure the content of the poem.	
 'A Poison Tree' by William Blake 	What other aspects of structure do you 'notice' as you read the	
by William Blake	poem?	





•		 what punctuation (and the accompanying capitalisation) where, and the rationale for using that punctuation how many verses and the rationale for this 	
•	'The Rose that Grew from Concrete' by Tupac Shakur		
-	First line: 'Did you hear about the rose that grew?'		
-	Final line: 'when no one else ever cared'.		



English REVISION LIST

Language Paper 1

Eden Boys

Topic Title	Key information/ Links	Tick when completed
Question 2 – how does the writer use language?	 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: how does the writer use structure?	 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 'to what extent do you agree or disagree?	 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 The difference between descriptive and narrative options: 	

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Question 5:	• Descriptive is written in 3 rd person, narrative will be 1 st person.	
Creative	Quality rather than quantity! –	
writing task.	• Taking hints from the text you have read: this is not the same as	
	copying or cheating, but wisely reading for inspiration	
	• Planning: do you usually do this? It is recommended that you take a	
	few minutes to plan	
	Use a range of punctuation to guide the reader:	
	Range of vocabulary for effect: interesting words or more ambitious	
	• Ones.	
	A range of sentence types and language devices	
	Strong opening sentence/paragraph for impact	
	Include some dialogue: not too much	

English REVISION LIST

Language Paper 2

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Question 2: Write a summary • Only make points on the focus of the question summary • Definition of a summary: 'a brief statement or account of the main points of something'. Similarities and/or differences • Comparative conjunctions and phrases: however, similarly, on the other hand, in comparison etc. • Highlight the main points – draw together into a summary using comparative conjunctions • Quotations or evidence from the text Question 3: How does the writer use language to? • Same as Paper 1, question 2 Questor 4: The perspectives and attitudes of the writer • Only make points on the focus of the question • Definition of a summary: 'a brief statement or account of the main points of something'. • Similarities and/or differences • Comparative conjunctions and phrases: however, similarly, on the other hand, in comparison etc. • Highlight the main points – draw together into a summary using ecomparative conjunctions and phrases: however, similarly, on the other hand, in comparison etc. • Ugotations or evidence from the text • Comparative conjunctions and phrases: however, similarily, on the other hand, in comparison etc. • Highlight the main points – draw together into a summary using ecomparative conjunctions of write cortex to a summary using (non-fiction) • Some enter form. The main points – draw together into a summary using (conventions of these forms of writing • Quotations or evidence and purpose; for example a speech: "thank you for conving to listen to me today", esustain your style:	Topic Title	Key information/ Links	Tick when completed
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writing (non-fiction) text for a leaflet or some other form. Familiarise yourself with the conventions of these forms of writing • Audience and purpose: show you understand how to write for a specific audience and purpose, for example a speech: "thank you for coming to listen to me today" • Sustain your style: be careful not to end a speech for example with 'yours faithfully' – sustain your form to the end! • DAFORREST: this or a similar strategy might help you to include language features into your piece: direct address, alliteration/anecdote, facts, opinions, rhetorical questions, repetition, statistics/simile/senses, tone/tripling etc. • Check your work: you can still gain marks at the end of the exam by checking through. Ensure punctuation is in place that you have			
 Audience and purpose: show you understand how to write for a specific audience and purpose; show you understand how to write for a specific audience and purpose, for example a speech: "thank you for coming to listen to me today" Sustain your style: be careful not to end a speech for example with 'yours faithfully' – sustain your form to the end! DAFORREST: this or a similar strategy might help you to include language features into your piece: direct address, alliteration/anecdote, facts, opinions, rhetorical questions, repetition, statistics/simile/senses, tone/tripling etc. Check your work: you can still gain marks at the end of the exam by checking through. Ensure punctuation is in place that you have 			
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 Check your work: you can still gain marks at the end of the exam by checking through. Ensure punctuation is in place that you have 		· · · · · ·	
by checking through. Ensure punctuation is in place that you have			
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MATHS FOUNDATION REVISION LIST

Topic Title	Section	Key information, use Corbettmaths for the videos and maths genie for the exam practice	Tick when completed
1.	Number	Place Value	
2.	Number	Rounding	
3.	Number	Properties of numbers	
4.	Number	Ordering Numbers	
5.	Number	Ordering Decimals	
6.	Number	Converting between Fractions Decimals & Percentages	
7.	Number	Equivalent Fractions	
8.	Number	Ordering Fractions	
9.	Number	Arithemetic Problems	
10.	Number	Using a Calculator	
11.	Number	Standard Form	
12.	Number	Arithmetic with fractions	
13.	Ratio &		
10.	Proportion	Fraction, Percentage and Ratio Problems	
14.	Ratio &		
	Proportion	Percentages	
15.	Ratio &		
	Proportion	Ratio	
16.	Ratio &		
	Proportion	Proportion	
17.	Algebra	Simplifying	
18.	Algebra	Expanding	
19.	Algebra	Factorise	
20.	Algebra	Function Machienes	
21.	Algebra	Solving	
22.	Algebra	Substitution	
23.	Algebra	Changing the Subject	
24.	Algebra	Coordinates	
25.	Algebra	Plotting graphs	
26.	Algebra	Gradient	
27.	Algebra	Sequences	
28.	Statistics &		
	Probability	Bar Charts	
29.	Statistics &		
	Probability	Stem & Leaf	
30.	Statistics &		
	Probability	Scatter Graphs	
31.	Statistics &		
	Probability	Averages & Range	

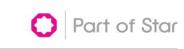
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32.	Statistics &		٦
	Probability	Probability	
33.	Statistics &		
	Probability	Venn Diagrams	
34.	Statistics &		
	Probability	Sets	
35.	Geometry	Area Perimeter	
36.	Geometry	Surface area	
37.	Geometry	Angles	
38.	Geometry	Parts of a Circle	
39.	Geometry	Converting Units	
40.	Geometry	Speed Distance Time	
41.	Geometry	Scale Drawings	
42.	Geometry	Elevations	
43.	Geometry	Transformations	
44.	Geometry	Similar Shapes	
45.	Geometry	Trigonometry	
46.	Geometry	Vectors	





MATHS HIGHER REVISION LIST

Topic Title	Section	Key information, use Corbettmaths for the videos and maths genie for	Tick when
		the exam practice	completed
1.	Number	Arithmetic with Decimals	
2.	Number	Prime Factor Form	
3.	Number	HCF & LCM	
4.	Number	HCF & LCM Worded Problems	
5.	Number	Estimating	
6.	Number	Using a Calculator & Rounding	
7.	Number	Error Intervals	
8.	Number	Bounds	
9.	Number	Standard Form	
10.	Number	Arithmetic with Mixed Number Fractions	
11.	Number	Recurring Decimals to Fractions	
12.	Number	Rules of Indices inc Negative and Fractional Indices	
13.	Number	Simplifying Surds	
14.	Number	Rationalising the denominator	
15.	Ratio Proportion		
	Rates of Change	Percentage Change	
16.	Ratio Proportion		
	Rates of Change	Repeat Percentage Change	
17.	Ratio Proportion		
	Rates of Change	Percentage Problems	
18.	Ratio Proportion		
	Rates of Change	Exchange Rate Problems	
19.	Ratio Proportion		
	Rates of Change	Ratio Problems	
20.	Ratio Proportion		
	Rates of Change	Ratio Fraction Percentage Problems	
21.	Ratio Proportion		
	Rates of Change	Proportion Problems	
22.	Ratio Proportion		
	Rates of Change	Inverse Proportion	
23.	Algebra	Expand & Simplify	
24.	Algebra	Expanding Quadratics	
25.	Algebra	Expanding Cubics	
26.	Algebra	Indices	
27.	Algebra	Solve equations	
28.	Algebra	Factorise	
29.	Algebra	Factorise Quadratics	
30.	Algebra	Substitute into a formula	
31.	Algebra	Rearrange Formulae	
32.	Algebra	Iteration	

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33.	Algebra	Y = mx+c Parallel and Perpendicular Lines
34.	Algebra	Solving Inequalities
35.	Algebra	Solving Quadratic Inequalities
36.	Algebra	Representing Inequalities Graphically
37.	Algebra	Algebraic Fractions
38.	Algebra	Simultaneous Equations by Elimination
39.	Algebra	Solve Quadratic Equations
40.	Algebra	Turning Points and x intercepts
41.	Algebra	Equation of a Circle
42.	Algebra	Sketching Graphs
43.	Algebra	nth term of a quadratic sequence
44.	Algebra	Functions
45.	Algebra	Proofs
46.	Statistics &	Maan/Madian Fraguancy Table/Chart
	Probability	Mean/Median Frequency Table/Chart
47.	Statistics &	Problems involving the mean
	Probability	
48.	Statistics &	Stem & Leaf Diagrams
	Probability	
49.	Statistics &	Frequency Polygons
	Probability	
50.	Statistics &	Scatter Graphs
	Probability	
51.	Statistics &	Cumulative Frequency & Box plots
	Probability	
52.	Statistics &	Histograms
	Probability	
53.	Statistics &	Sample/Relative Frequency
F.4	Probability	
54.	Statistics &	Probability
55.	Probability Statistics &	
55.	Probability	Venn Diagrams
56.	Geometry	Geometry with Algebra
57.	Geometry	Circles & Sectors
57.	Geometry	Pythagoras
59.	Geometry	Trigonometry
60.	Geometry	Transformations
61.	Geometry	Angle Rules
62.	Geometry	Angle Proofs
63.	Geometry	Exterior Angles
64.	Geometry	Construction
65.	Geometry	Elevations
66.	Geometry	Surface Area
67.	Geometry	Volume
07.	Geometry	volume





68.	Geometry	Exact Trig Values	
69.	Geometry	Non Right Angle Trigonometry	
70.	Geometry	Area of a Triangle (sin)	
71.	Geometry	Similar 2D & 3D Shapes	
72.	Geometry	Circle Theorems	
73.	Geometry	Sketching Sine, Cosine and Tangent Graphs	
74.	Geometry	Vectors	
75.	Geometry	Speed Distance Time	
76.	Geometry	Distance from a Time Speed Graph (Area under a curve)	





Biology (8461) REVISION LIST - SS separate science (SS)

Paper 1	Торіс	Key information/ Links	Tick when
			completed
	Cell structure and	B1 Cell structure and transport	
	transport	B1.1 The world of the microscope	
		B1.2 Animal and plants cells	
		B1.3 Eukaryotic and prokaryotic cells	
		B1.4 Specialisation in animal cells	
		B1.5 Specialisation in plant cells	
		B1.6 Diffusion	
		B1.8 Osmosis in plants	
		B1.9 Active transport	
		B1.10 Exchanging materials	
	Cell division	B2 Cell division	
		B2.1 Cell division	
1		B2,2 Growth and differentiation	
		B2.3 Stem cells	
		B2.4 Stem cell dilemmas	
	Organisation and the	B3 Organisation and the digestive system	
	digestive system	B3.1 Tissues and organs	
		B3.2 The human digestive system	
		B3.4 Catalysts and enzymes	
		B3.5 Factors affecting enzyme action	
		B3.6 How the digestive system works	
		B3.7 Making digestion efficient	
	Organising animals	B4 Organisation animals and plants	
	and plants	B4.1 The blood	
		B4.2 The blood vessels	
		B4.3 The heart	
		B4.4 Helping the heart	
		B4.5 Breathing and gas exchange	
		B4.6 Tissues and organs in plants	
		B4.7 Transport system in plants	
		B4.8 Evaporation	
		B4.9 Factors affecting transpiration	
	Communicable	B5 Communicable diseases	
	diseases	B5.1 Health and disease	
		B5.2 Pathogens and disease	
		B5.3 Growing bacteria in the lab	
		B5.4 Preventing bacterial growth	
		B5.5 Preventing infections	
		B5.6 Viral disease	
		B5.7 Bacterial disease	
		B5.8 Disease caused by fungi and protists	
		B5.9 Human defence response	
		B5.10 More about plant disease	
		B5.11 Plant defence responses	

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Browenting and	B6 Preventing and treating disease	
Preventing and		
treating diseases	B6.1 Vaccination	
	B6.2 Antibiotics and painkillers	
	B6.3 Discovery	
	B6.4 Developing drugs	
	B6.5 Making monoclonal antibodies (H)	
	B6.6 Uses of monoclonal antibodies (H)	
Non-communicable	B7 Non-communicable diseases	
diseases	B7.1 Non-communicable disease	
	B7.2 Cancer	
	B7.3 Smoking and the risk of disease	
	B7.4 Diet, exercise, and diseases	
	B7.5 Alcohol and other carcinogens	
Photosynthesis	B8.1 Photosynthesis	
	B8.2 The rate of photosynthesis	
	B8.3 How plants use glucose	
	B8.4 Making the most of photosynthesis (H)	
Respiration	B9.1 Aerobic respiration	
	B9.2 The response to exercise	
	B9.3 Anaerobic respiration	
	B9.4 Metabolism and the Liver	

Paper 2	Торіс	Key information/ Links	Tick when completed
	The human	B10.1 Principles of homeostasis	
	nervous system	B10.2 Structure & function of nervous system	
		B10.3 Reflex actions	
		B10.5 The eye	
		B10.6 Eye problems	
	Hormonal	B11.1 Hormonal control	
	coordination	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	B12.1 Controlling body temperature	
	action	B12.2 Removing Waste products	
		B12.3 The human Kidney	
		B12.4 Dialysis – an artificial kidney	
		B12.5 Kidney transplants	
	Genetics &	B13.1 Types of reproduction	
	reproduction	B13.2 Cell division in sexual reproduction	
		B13.3 The best of both worlds	
		B13.4 DNA & genome	





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	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	B14.1 Variation
Evolution	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	B15.1 The history of genetics
Evolution	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,	B16.1 The importance of communities
interdependence	B16.2 Organisms in their environment
and competition	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	B17.1 Feeding relationships
ecosystem	B17.2 Materials cycling
	B17.3 The carbon cycle
	B17. 4 Rates of decomposition
Biodiversity and	B18.1 The human population explosion
Ecosystems	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 mor efficient
	B18.12 Sustainable food production





Separate science 8461: Refer to separate science text book

Paper 1	
What's assessed	
Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.	
How it's assessed	
 Written exam: 1 hour 45 minutes Foundation and Higher Tier 100 marks 50% of GCSE 	

Biology paper one topic lists B1 to B9.

Paper 2

What's assessed

Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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Biology Combined Science (8464) REVISION LIST

Cell structure and transport B1 Cell structure and transport complete B1.1 The world of the microscope B1.2 Animal and plants cells B1.3 Eukaryotic and prokaryotic cells B1.4 Specialisation in animal cells B1.5 Specialisation in plant cells B1.5 Specialisation in plant cells	d
transportB1.1 The world of the microscopeB1.2 Animal and plants cellsB1.3 Eukaryotic and prokaryotic cellsB1.4 Specialisation in animal cellsB1.5 Specialisation in plant cells	
B1.3 Eukaryotic and prokaryotic cells B1.4 Specialisation in animal cells B1.5 Specialisation in plant cells	
B1.4 Specialisation in animal cells B1.5 Specialisation in plant cells	
B1.5 Specialisation in plant cells	
B1.8 Osmosis in plants	
B1.9 Active transport	
B1.10 Exchanging materials	
Cell division B2 Cell division	
B2.1 Cell division B2,2 Growth and differentiation	
B2.3 Stem cells	
B2.4 Stem cell dilemmas	
Organisation and the B3 Organisation and the digestive system	
digestive system B3.1 Tissues and organs	
B3.2 The human digestive system	
B3.4 Catalysts and enzymes	
B3.5 Factors affecting enzyme action	
B3.6 How the digestive system works	
B3.7 Making digestion efficient	
Organising animals B4 Organisation animals and plants	
and plants B4.1 The blood	
B4.2 The blood vessels	
B4.3 The heart	
B4.4 Helping the heart	
B4.5 Breathing and gas exchange	
B4.6 Tissues and organs in plants	
B4.7 Transport system in plants	
B4.8 Evaporation	
B4.9 Factors affecting transpiration	
Communicable B5 Communicable diseases	
diseases B5.1 Health and disease	
B5.2 Pathogens and disease B5.3 Growing bacteria in the lab	
B5.3 Growing bacteria in the lab B5.4 Preventing bacterial growth	
B5.5 Preventing bacterial growth	
B5.6 Viral disease	
B5.7 Bacterial disease	
B5.8 Disease caused by fungi and protists	
B5.9 Human defence response	

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	Preventing and treating diseases	B6 Preventing and treating disease B6.1 Vaccination B6.2 Antibiotics and painkillers B6.3 Discovery B6.4 Developing drugs	
1	Non-communicable	B7 Non-communicable diseases	
	diseases	B7.1 Non-communicable disease	
		B7.2 Cancer	
		B7.3 Smoking and the risk of disease	
		B7.4 Diet, exercise, and diseases	
		B7.5 Alcohol and other carcinogens	
	Photosynthesis	B8.1 Photosynthesis	
		B8.2 The rate of photosynthesis	
		B8.3 How plants use glucose	
		B8.4 Making the most of photosynthesis (H)	
	Respiration	B9.1 Aerobic respiration	
		B9.2 The response to exercise	
		B9.3 Anaerobic respiration	
		B9.4 Metabolism and the Liver	

Paper 2	Торіс	Key information/ Links	Tick when completed
	The human nervous	B10.1 Principles of homeostasis	
	system	B10.2 Structure & function of nervous system	
		B10.3 Reflex actions	
	Hormonal	B11.1 Hormonal control	
	coordination	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 &	B12.1 Types of reproduction	
	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	B13.1 Variation	
	Evolution	B13.2 Evolution by natural selection	
		B13.3 Selective breeding	





	B13.4 Genetic engineering
	B13.5 Ethics of genetic techniques
Genetics and	B14.1 Evidence of Evolution
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,	B15.1 The importance of communities
interdependence and	B15.2 Organisms in their environment
competition	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 an	B16.1 Feeding relationships
ecosystem	B16.2 Materials cycling
	B16.3 The carbon cycle
Biodiversity and	B17.1 The human population explosion
Ecosystems	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 Paper 1	Biology Paper 2
What's assessed	What's assessed
Biology topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.	Biology topics 5–7: Homeostasis and response; Inheritance, variation and evolution and Ecology.
How it's assessed	How it's assessed
Written exam: 1 hour 15 minutes	Written exam: 1 hour 15 minutes
70 marks	70 marks
16.7% of GCSE	16.7% of GCSE

PHYSICS (8463) TOPIC LIST

Key: Separate science (SS)

	Торіс	Key information/ Links	Tick when
			completed

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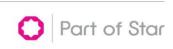
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SS	P1	P1 Conservation and dissipation of energy	
Energy and	Conservation and	P1.1 Changes in Energy Stores	
<u>energy</u>	dissipation of	P1.2 Conservation of Energy	
<u>resources</u>	energy	P1.3 Energy and work	
		P1.4 Gravitational and potential energy stores	
		P1.5 Kinetic energy and elastic energy stores	
		P1.6 Energy Dissipation	
		P1.7 Energy and Efficiency (Improving efficiency H)	
		P1.8 Electrical Appliances	
		P1.9 Energy and Power	
SS	P2	P2 Energy transfer by heating	
	Energy Transfer by	P2.1 Energy transfer by conduction	
	heating	P2.2 Infrared Radiation	
		P2.3 More about infrared radiation	
		P2.4 Specific Heat Capacity	
		P2.5 Heating and Insulating Buildings	
SS	P3	P3 Energy Resources	
	Energy Resources	P3.1 Energy Demands	
		P3.2 Energy from wind and water	
		P3.3 Power from the Sun and the Earth	
		P3.4 Energy and the Environment	
		P3.5 Big energy issues	
SS	P4	P4 Electric Circuits	
Particles at	Electric Circuits	P4.1 Electrical charges and fields	
work		P4.2 Current and charge	
		P4.3 Potential difference and resistance	
		P4.4 Component Characteristics	
		P4.5 Series Circuits	
		P4.6 Parallel Circuits	
SS	P5	P5 Electricity in the home	
	Electricity in the	P5.1 Alternating Current	
	home	P5.2 Cables and Plugs	
		P5.3 Electrical Power and Potential difference	
		P5.4 Electrical currents and energy transfer	
		P5.5 Appliances and efficiency	
SS	P6	P6 Molecules and Matter	
	Molecules and	P6.1 Density	
	Matter	P6.2 States of matter	
		P6.3 Changes of state	
		P6.4 Internal Energy	
		P6.5 Specific Latent Heat	
		P6.6 Gas Pressure and temperature	
		P6.7 Gas Pressure and Volume (Pressure in piston H)	
SS	P7	P7 Radioactivity	
	Radioactivity	P7.1 Atoms and radiation	
	,	P7.2 The discovery of the nucleus	
		P7.3 Changes in the nucleus	
		P7.4 More about alpha, beta and gamma radiation	
		P7.5 Activity and half life	





		P7.6 Nuclear radiation in medicine	
		P7.7 Nuclear fission	
		P7.8 Nuclear fusion	
		P7.9 Nuclear Issues	
SS	P8	P8 Forces in balance	
Forces in	Forces in action	P8.1 Vectors and scalars	
Action		P8.2 Forces between objects	
		P8.3 Resultant forces (Force diagrams H)	
		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	Р9	P9 Motion	
	Motion	P9.1 Speed and distance-time graphs	
		P9.2 Velocity and acceleration (Velocity of object moving in circles H)	
		P9.3 More about velocity-time graphs (Area under V-T Graph H)	
		P9.4 Analysing motion graphs (A D-T graph for changing	
		speed/tangents H)	
SS	P10	P10 Forces and motion	
	Forces and motion	P10.1 Forces and acceleration (Inertia H)	
		P10.2 Weight and terminal velocity	
		P10.3 Forces and braking (Deceleration H)	
		P10.4 Momentum	
		P10.5 Using conservation of momentum	
		P10.6 Impact forces	
		P10.7 Safety first	
		P10.8 Forces and elasticity.	
SS	P11	P11 Force and Pressure	
33	Force and Pressure	P11.1 Pressure and surfaces	
	Torce and Pressure	P11.2 Pressure and liquid at rest	
		P11.3 Atmospheric Pressure (Calculating Pressure H)	
		P11.4 Upthrust and flotation	
SS	P12	P12 Wave Properties	
Waves	Wave Properties	P12.1 The nature of waves	
Electromagnets	wave i toperties	P12.2 The properties of waves	
And space		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	
	Electromagnetic	P13.1 The electromagnetic spectrum	
	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 (X-ray strength imaging vs therapy H)	
SS	P14	P14 Light	
	F 14		





	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	P15 Electromagnetism	
	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	P16 Space	
	Space	P16.1 Formation of the Solar System	
		P16.2 The life history of a star	
		P16.3 Planets, satellites, and orbits. (Centripetal force/satellites H)	
		P16.4 The expanding universe.	
		P16.5 The beginning and future of the Universe	

SS Physics Paper 1	SS Physics Paper 2
What's Assessed?	What's Assessed?
<u>Energy</u>	<u>Forces</u>
P1 Conservation and dissipation of energy	P8 Forces in balance
P1.1 Changes in Energy Stores	P8.1 Vectors and scalars
P1.2 Conservation of Energy	P8.2 Forces between objects
P1.3 Energy and work	P8.3 Resultant forces (Force diagrams H)
P1.4 Gravitational and potential energy stores	P8.4 Moments at work
P1.5 Kinetic energy and elastic energy stores	P8.5 More about leavers and gears
P1.6 Energy Dissipation	P8.6 Centre of mass
P1.7 Energy and Efficiency (Improving efficiency H)	P8.7 Moments and equilibrium
P1.8 Electrical Appliances	P8.8 The parallelogram of forces
P1.9 Energy and Power	P8.9 Resolution of forces
P2 Energy transfer by heating	P9 Motion
P2.1 Energy transfer by conduction	P9.1 Speed and distance-time graphs
P2.2 Infrared Radiation	P9.2 Velocity and acceleration (Velocity of object moving in
P2.3 More about infrared radiation	circles H)
P2.4 Specific Heat Capacity	P9.3 More about velocity-time graphs (Area under V-T Graph
P2.5 Heating and Insulating Buildings	Н)
	P9.4 Analysing motion graphs (A D-T graph for changing
P3 Energy Resources	speed/tangents H)
P3.1 Energy Demands	
P3.2 Energy from wind and water	P10 Forces and motion
P3.3 Power from the Sun and the Earth	P10.1 Forces and acceleration (Inertia H)
P3.4 Energy and the Environment	P10.2 Weight and terminal velocity
P3.5 Big energy issues	P10.3 Forces and braking (Deceleration H)
	P10.4 Momentum
Electricity	P10.5 Using conservation of momentum



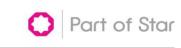


P4 Electric Circuits	P10.6 Impact forces
P4.1 Electrical charges and fields	P10.7 Safety first
P4.2 Current and charge	P10.8 Forces and elasticity.
P4.3 Potential difference and resistance	
P4.4 Component Characteristics	P11 Force and Pressure
P4.5 Series Circuits	P11.1 Pressure and surfaces
P4.6 Parallel Circuits	P11.2 Pressure and liquid at rest
	P11.3 Atmospheric Pressure (Calculating Pressure H)
P5 Electricity in the home	P11.4 Upthrust and flotation
P5.1 Alternating Current	
P5.2 Cables and Plugs	Waves
P5.3 Electrical Power and Potential difference	P12 Wave Properties
P5.4 Electrical currents and energy transfer	P12.1 The nature of waves
P5.5 Appliances and efficiency	P12.2 The properties of waves
	P12.3 Reflection and Refraction
Particle model of matter	P12.4 More about waves
P6 Molecules and Matter	P12.5 Sound Waves
P6.1 Density	P12.5 Sound Waves P12.6 The uses of ultrasound
P6.2 States of matter	P12.7 Seismic Waves
	P12.7 Seisinic waves
P6.3 Changes of state	Press In
P6.4 Internal Energy	P14 Light
P6.5 Specific Latent Heat	P14.1 Reflection of light
P6.6 Gas Pressure and temperature	P14.2 Refraction of light
P6.7 Gas Pressure and Volume (Pressure in piston H)	P14.3 Light and colour
	P14.4 Lenses
Atomic Structure	P14.5 Using lenses
P7 Radioactivity	
P7.1 Atoms and radiation	Magnetism and electromagnetism
P7.2 The discovery of the nucleus	P13 Electromagnetic waves
P7.3 Changes in the nucleus	P13.1 The electromagnetic spectrum
P7.4 More about alpha, beta and gamma radiation	P13.2 Light, infrared, microwaves and radio waves
P7.5 Activity and half life	P13.3 Communications (More about signals/carrier waves
P7.6 Nuclear radiation in medicine	н)
P7.7 Nuclear fission	P13.4 Ultraviolet waves, X-rays and gamma rays.
P7.8 Nuclear fusion	P13.5 X-rays in medicine (X-ray strength imaging vs therapy
P7.9 Nuclear Issues	н)
	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
	P15.7 Transformers P15.8 Transformers in action
	Space Physics
	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
How it's Assessed?	How it's Assessed?
Written Exam: 1 hour and 45 mins	Written Exam: 1 hour and 45 mins
100 marks	100 marks
50% of GCSE	50% of GCSE





PHYSICS TOPIC LIST

Key: Physics Combined science (8464)

	Торіс	Key information/ Links	Tick when
			completed
CS	P1	P1 Conservation and dissipation of energy	
	Conservation and	P1.1 Changes in Energy Stores	
Energy and Energy	dissipation of	P1.2 Conservation of Energy	
Resources	energy	P1.3 Energy and work	
		P1.4 Gravitational and potential energy stores	
		P1.5 Kinetic energy and elastic energy stores	
		P1.6 Energy Dissipation	
		P1.7 Energy and Efficiency (Improving efficiency H)	
		P1.8 Electrical Appliances	
		P1.9 Energy and Power	
CS	P2	P2 Energy transfer by heating	
	Energy Transfer	P2.1 Energy transfer by conduction	
	by heating	P2.2 Specific Heat Capacity	
		P2.3 Heating and Insulating Buildings	
CS	P3.	P3 Energy Resources	
	Energy Resources	P3.1 Energy Demands	
		P3.2 Energy from wind and water	
		P3.3 Power from the Sun and the Earth	
		P3.4 Energy and the Environment	
		P3.5 Big energy issues	
CS	P4	P4 Electric Circuits	
	Electric Circuits	P4.1 Current and Charge	
Particles at work		P4.2 Potential difference and resistance	
		P4.3 Component Characteristics	
		P4.4 Series Circuits	
		P4.5 Parallel Circuits	
CS	P5	P5 Electricity in the home	
	Electricity in the	P5.1 Alternating Current	
	home	P5.2 Cables and Plugs	
		P5.3 Electrical Power and Potential difference	
		P5.4 Electrical currents and energy transfer	
CS	DC	P5.5 Appliances and efficiency P6 Molecules and Matter	
LS	P6 Molecules and		
	Matter	P6.1 Density P6.2 States of matter	
	watter	P6.2 States of matter P6.3 Changes of state	
		P6.4 Internal Energy	
		P6.5 Specific Latent Heat	
		P6.6 Gas Pressure and temperature	
CS	P7	P7 Radioactivity	
	Radioactivity	P7.1 Atoms and radiation	
	,	P7.2 The discovery of the nucleus	

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		DZ 2 Changes in the pusheur
		P7.3 Changes in the nucleus
		P7.4 More about alpha, beta and gamma radiation
		P7.5 Activity and half life
CS	P8	P8 Forces in balance
	Forces in action	P8.1 Vectors and scalars
Forces in action		P8.2 Forces between objects
		P8.3 Resultant forces (Force diagrams H)
		P8.4 Centre of mass
		P8.5 The parallelogram of forces (H)
		P8.6 Resolution of forces (H)
CS	P.9	P9 Motion
	Motion	P9.1 Speed and distance-time graphs
		P9.2 Velocity and acceleration (Velocity of object moving in
		circles H)
		P9.3 More about velocity-time graphs (Area under V-T Graph
		Н)
		P9.4 Analysing motion graphs (A D-T graph for changing
		speed/tangents H)
CS	P10.	P10 Forces and motion
	Forces and	P10.1 Forces and acceleration (Inertia H)
	motion	P10.2 Weight and terminal velocity
		P10.3 Forces and braking (Deceleration H)
		P10.4 Momentum
		P10.5 Forces and Elasticity
CS	P11	P11 Wave Properties
	Wave Properties	P11.1 The nature of waves
Waves and		P11.2 The properties of waves
Electromagnets		P11.3 Reflection and Refraction
		P1.4 More about waves
CS	P12	P12 Electromagnetic Waves
	Electromagnetic	P12.1 The electromagnetic spectrum
	Waves	P12.2 Light, Infra-red, microwaves and radiowaves
		P12.3 Communication (More about signals/carrier waves H)
		P12.4 Ultraviolet waves, X-rays and radiowaves
		P12.5 X- rays in medicine (X-ray strength imaging vs therapy
		H)
CS	P13	P13 Electromagnetism
	Electromagnetism	P13.1 Magnetic Fields
		P13.2 Magnetic fields of electric currents.
		P13.3 The motor effect.
L	1	

CS Physics Paper 1	CS Physics Paper 2
What's Assessed?	What's Assessed?
Energy	<u>Forces</u>
P1 Conservation and dissipation of energy	P8 Forces in balance
P1.1 Changes in Energy Stores	P8.1 Vectors and scalars
P1.2 Conservation of Energy	P8.2 Forces between objects
P1.3 Energy and work	P8.3 Resultant forces (Force diagrams H)





P1.4 Gravitational and potential energy stores	P8.4 Centre of mass
P1.5 Kinetic energy and elastic energy stores	P8.5 The parallelogram of forces (H)
P1.6 Energy Dissipation	P8.6 Resolution of forces (H)
P1.7 Energy and Efficiency (Improving efficiency H)	
P1.8 Electrical Appliances	P9 Motion
P1.9 Energy and Power	P9.1 Speed and distance-time graphs
	P9.2 Velocity and acceleration (Velocity of object moving in
P2 Energy transfer by heating	circles H)
P2.1 Energy transfer by conduction	P9.3 More about velocity-time graphs (Area under V-T Graph
P2.2 Specific Heat Capacity	н)
P2.3 Heating and Insulating Buildings	P9.4 Analysing motion graphs (A D-T graph for changing
	speed/tangents H)
P3 Energy Resources	
P3.1 Energy Demands	P10 Forces and motion
P3.2 Energy from wind and water	P10.1 Forces and acceleration
P3.3 Power from the Sun and the Earth	P10.2 Weight and terminal velocity
P3.4 Energy and the Environment	P10.3 Forces and braking (Deceleration H)
P3.5 Big energy issues	P10.4 Momentum
Electricity	P10.5 Forces and Elasticity
P4 Electric Circuits	Waves
P4.1 Current and Charge	P11 Wave Properties
P4.2 Potential difference and resistance	P11.1 The nature of waves
P4.3 Component Characteristics	P11.2 The properties of waves
P4.4 Series Circuits	P11.2 The properties of waves P11.3 Reflection and Refraction
P4.5 Parallel Circuits	P11.5 Kenection and Kenaction P1.4 More about waves
P4.5 Parallel Circuits	P1.4 More about waves
P5 Electricity in the home	Magneticm and electromagneticm
P5.1 Alternating Current	Magnetism and electromagnetism
P5.2 Cables and Plugs	P12 Electromagnetic Waves
P5.3 Electrical Power and Potential difference	P12.1 The electromagnetic spectrum
P5.4 Electrical currents and energy transfer	P12.2 Light, Infra-red, microwaves and radiowaves
P5.5 Appliances and efficiency	P12.3 Communication (<i>More about signals/carrier waves H</i>)
Particle Model of Matter	P12.4 Ultraviolet waves, X-rays and radiowaves
P6 Molecules and Matter	P12.5 X- rays in medicine (X-ray strength imaging vs therapy
	Н)
P6.1 Density P6.2 States of matter	
	P13 Electromagnetism
P6.3 Changes of state	P13.1 Magnetic Fields
P6.4 Internal Energy P6.5 Specific Latent Heat	P13.2 Magnetic fields of electric currents.
	P13.3 The motor effect.
P6.6 Gas Pressure and temperature	
Atomic Structure	
P7 Radioactivity	
P7.1 Atoms and radiation	
P7.2 The discovery of the nucleus	
P7.3 Changes in the nucleus	
P7.4 More about alpha, beta and gamma radiation	
P7.5 Activity and half life	
Line the encourt	Line it a second
How it's assessed Written Exam: 1 hour and 15 mins	How it's assessed
	Written Exam: 1 hour and 15 mins





70 marks	70 marks
16.7% of GCSE	16.7% of GCSE





CHEMISTRY Separate Science (8462) TOPIC LIST Refer to Chemistry separate science text book

	Торіс	Key information/ Links	Tick when
			completed
	C1	C1.1 Atoms	
		C1.2 Chemical Equations C1.3 Separating Mixtures	
Atoms, bonding and moles	Atomic Structure	C1.4 Fractional Distillation and Paper Chromatography	
and moles		C1.5 History of the Atom	
		C1.6 Structure of the Atom	
		C1.7 lons, Atoms and Isotopes	
		C1.8 Electronic Structure	
	C2	C2.1 Development of the Periodic Table	
		C2.2 Electronic Structures and the Periodic Table	
	The Periodic	C2.3 Group 1 – the Alkali Metals	
	Table	C2.4 Group 7 – the Halogens	
		C2.5 Explaining Trends C2.6 The transition metals	
	СЗ	C3.1 States of Matter	
		C3.2 Atoms into lons	
	Structure and	C3.3 Ionic Bonding	
	Bonding	C3.4 Giant Ionic Lattices	
	_	C3.5 Covalent Bonding	
		C3.6 Structure of Simple Molecules	
		C3.7 Giant Covalent Structures	
		C3.8 Fullerenes and Graphene C3.9 Bonding in Metals	
		C3.10 Giant Metallic Structures	
		C3.11 Nanoparticles	
		C3.12 Application of nanoparticles	
	C4	C4.1 Relative Masses and Moles	
		C4.2 Equations and Calculations (HT only)	
	Chemical	C4.3 From Masses to Balanced Equations (HT only)	
	Equations	C4.4 The yield of chemical reaction	
		C4.5 Atom economy	
		C4.6 Expressing Concentrations	
		C4.7 Titrations	
		C4.8 titration calculations (HT only) C4.9 Volume of gases (HT only)	
		(4.5 volume of gases (n 1 only)	
	C5	C5.1 The Reactivity Series	
	5	C5.2 Displacement Reactions	
	Chemical Changes	C5.3 Extracting Metals	
	Chemical Changes		

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Chemical Reactions		C5.4 Salts from Metals	
and Energy		C5.5 Salts from Insoluble Bases	
<u>Changes</u>		C5.6 Making More Salts	
		C5.7 Neutralisation and pH Scale	
		C5.8 Strong and Weak Acids (HT only)	
	C6	C6.1 Introduction to Electrolysis	
		C6.2 Changes at the Electrode	
	Electrolysis	C6.3 The Extraction of Aluminium	
		C6.4 Electrolysis of Aqueous Solutions	
	C7	C7.1 Exothermic and Endothermic Reactions	
		C7.2 Using Energy Transfers from Reactions	
	Energy Changes	C7.3 Reaction Profiles	
	Lifeigy changes	C7.4 Bond Energy Calculations (HT only)	
		C7.5 Chemical cells and batteries	
		C7.6 Fuel cells	
		Paper one ends C1-C7	
		Paper 2 C8-C15	
	C8	C8.1 Rate of Reaction	
	Rates and	C8.2 Collision Theory and Surface Area	
	Equilibrium	C8.3 The Effect of Temperature	
.	-44	C8.4 The Effect of Concentration and Pressure	
Rates, Equilibrium		C8.5 The Effect of Catalysts	
and Organic		C8.6 Reversible Reactions	
<u>Chemistry</u>		C8.7 Energy and Reversible Reactions	
		C8.8 Dynamic Equilibrium	
		C8.9 Altering Conditions (HT only)	
	С9	C9.1 Hydrocarbons	
		C9.2 Fractional Distillation of Oil	
	Crude Oil and	C9.3 Burning Hydrocarbon Fuels	
	Fuels	C9.4 Cracking Hydrocarbons	
	C10	C10.1 Reactions of the alkenes	
	Organic reactions	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	
	C12	C12.1 Pure Substances and Mixtures	
	Chemical Analysis	C12.2 Analysing Chromatograms.	
Analysis and Earth's		C12.3 Testing for Gases	
<u>Resources</u>		C12.4 Tests for positive ions	
<u>nesources</u>		C12.5 Tests for negative ions	
		C12.6 Instrumental analysis	
	l		





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	C14.1 Finite and Renewable Resources
The Earth's	C14.2 Water Safe to Drink
resources	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
Using our	C15.2 Useful alloys
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

Chemistry 8462

Paper 1 C1-C7

Paper 1:

What's assessed

Topics 1-5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

How it's assessed

- Written exam: 1 hour 45 minutes •
- Foundation and Higher Tier •
- 100 marks •
- 50% of GCSE •

Paper 2 C8 to C15

Paper 2:

What's assessed

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Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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CHEMISTRY combined science (8464) TOPIC LIST Key: Combined science (CS) refer to combined science text book

	Торіс	Key information/ Links	Tick when completed
CS	C1	C1.1 Atoms	
		C1.2 Chemical Equations	
Atoms, bonding	Atomic Structure	C1.3 Separating Mixtures	
and moles		C1.4 Fractional Distillation and Paper Chromatography	
		C1.5 History of the Atom	
		C1.6 Structure of the Atom	
		C1.7 Ions, Atoms and Isotopes	
		C1.8 Electronic Structure	
CS	C2	C2.1 Development of the Periodic Table	
		C2.2 Electronic Structures and the Periodic Table	
	The Periodic	C2.3 Group 1 – the Alkali Metals	
	Table	C2.4 Group 7 – the Halogens	
		C2.5 Explaining Trends	
CS	С3	C3.1 States of Matter	
		C3.2 Atoms into lons	
	Structure and	C3.3 Ionic Bonding	
	Bonding	C3.4 Giant Ionic Lattices	
		C3.5 Covalent Bonding	
		C3.6 Structure of Simple Molecules	
		C3.7 Giant Covalent Structures	
		C3.8 Fullerenes and Graphene	
		C3.9 Bonding in Metals	
		C3.10 Giant Metallic Structures	
CS	C4	C4.1 Relative Masses and Moles	
		C4.2 Equations and Calculations (HT only)	
	Chemical	C4.3 From Masses to Balanced Equations (HT only)	
	Equations	C4.4 Expressing Concentrations	
CS	C5	C5.1 The Reactivity Series	
		C5.2 Displacement Reactions	
Chemical Reactions	Chemical Changes	C5.3 Extracting Metals	
and Energy		C5.4 Salts from Metals	
Changes		C5.5 Salts from Insoluble Bases	
		C5.6 Making More Salts	
		C5.7 Neutralisation and pH Scale	
		C5.8 Strong and Weak Acids (HT only)	
CS	C6	C6.1 Introduction to Electrolysis	

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		C6.2 Changes at the Electrode
	Electrolysis	C6.3 The Extraction of Aluminium
		C6.4 Electrolysis of Aqueous Solutions
CS	С7	C7.1 Exothermic and Endothermic Reactions
		C7.2 Using Energy Transfers from Reactions
	Energy Changes	C7.3 Reaction Profiles
		C7.4 Bond Energy Calculations (HT only)
	C8	C8.1 Rate of Reaction
cs	Rates and	C8.2 Collision Theory and Surface Area
65	Equilibrium	C8.3 The Effect of Temperature
Datas Fauilibuium	-44	C8.4 The Effect of Concentration and Pressure
Rates, Equilibrium		C8.5 The Effect of Catalysts
and Organic		C8.6 Reversible Reactions
<u>Chemistry</u>		C8.7 Energy and Reversible Reactions
		C8.8 Dynamic Equilibrium
		C8.9 Altering Conditions (HT only)
		co.5 Altering conditions (TT only)
CS	С9	C9.1 Hydrocarbons
		C9.2 Fractional Distillation of Oil
	Crude Oil and	C9.3 Burning Hydrocarbon Fuels
	Fuels	C9.4 Cracking Hydrocarbons
	i ucis	
CS	C10	C10.1 Pure Substances and Mixtures
	Chemical Analysis	C10.2 Analysing Chromatograms.
Analysis and Earth's	,,	C10.3 Testing for Gases
Resources		Ŭ Ť
CS	C11	C11.1 History of our Atmosphere
	The Earth's	C11.2 Our Evolving Atmosphere
	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

CS CHEMISTRY PAPER ONE	CS CHEMISTRY PAPER TWO
What's assessed – see topics above:	What's assessed – see topics above:
• C1	• C8
• C2	• C9
• C3	• C10
• C4	• C11





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• C5	• C12
• C6	
• C7	
How it's assessed	How it's assessed
Written Exam: 1 hour and 15 mins	Written Exam: 1 hour and 15 mins
70 marks	70 marks
16.7% of GCSE	16.7% of GCSE





History REVISION LIST

Το	oic Title	Key information/ Links	Tick when completed
1.	Medieval Medicine	Surgery and anatomy- What types of doctors were there and how did they operate What was the main disease- What caused it and how did people try to deal with it. What factors were helping or hindering medicine at the time? Who were the key individuals and what did they discover/do? Hippocrates, Galen	
2.	Renaissance Medicine	Surgery and anatomy- What types of doctors were there and how did they operate What was the main disease- What caused it and how did people try to deal with it. What factors were helping or hindering medicine at the time Who were the key individuals and what did they discover/do? Harvey, Pare, Vesalius, Hunter.	
3.	Industrial revolution medicine	Surgery and anatomy- What types of doctors were there and how did they operate What was the main disease- What caused it and how did people try to deal with it. What factors were helping or hindering medicine at the time Who were the key individuals and what did they discover/do? Jenner Pasteur, Koch, Erlich, Lister, Semmelweis.	
4.	Modern Medicine	Surgery and anatomy- What types of doctors were there and how did they operate What was the main disease- What caused it and how did people try to deal with it. What factors were helping or hindering medicine at the time (Big focus on both world wars) Who were the key individuals and what did they discover/do? Bevan, Beveridge, Lloyd George (liberal reforms) Harold Gillies, Fleming, Florey and Chan.	
5.	Conflict and Tension: Treaty of Versailles and league of nations	 What did the big three want and how satisfied were they. What were the reactions to the treaty including the German reaction. What were the terms of the treaty of Versailles. What was the membership and structure of the league. What were the strengths and weaknesses? How was the league successful in 1920? 	

Geography REVISION LIST

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Topic Title		Key information/ Links	
1.	The Challenge of Natural Hazards	 case studies. Weather Hazards – cause/effect/response of tropical storms. Typhoon Haiyan. UK weather. 	
2.	The Living World	Climate Change – causes, mitigation, and adaptation. Ecosystems – roles, interdependence, change, and a small-scale ecosystem case study: Epping Forest. Tropical Rainforests – Distribution, characteristics, adaptations, deforestation, and sustainable management. Hot Deserts – Characteristics, opportunities for, and challenges of development,	
3.	Physical	desertification, and reducing desertification. An overview of the location of major upland/lowland areas and river systems.	
	Landscapes of the UK	Coastal Landscapes – processes of erosion, deposition, and transportation. Landforms. Management strategies. River Landscapes – processes of erosion, deposition, and transportation. Landforms. Management strategies.	
4.	4. Urban Issues and Challenges The global pattern of urban change. Factors affecting the rate of urbanisation – migration (push–pull theory), natural increase. The emergence of megacities. Rio de Janeiro – location and importance. How urban change has created opportunities and challenges.		
Birmingham – location and importance. Impacts of national and international migration on the growth and character of the city. How urban change has created opportunities and challenges. Sustainable urban living.			
5. The Changing Different ways of classifying parts of the world according to their level of economic development and quality of life and different economic and social measures of development. Link between stages of the Demographic Transition Model and the level of development. Causes of uneven development: physical, economic and historical. Nigeria – location and importance. Changing industrial structure, TNC's, and the			
		impacts of aid. Environmental impacts of economic development. Quality of life. Economic change in the UK. Post-industrial economy. Science and business parks. Environmental impacts of industry. Changing rural landscapes in the UK. Changing transport infrastructure. The north-south divide. The UK in the wider world.	

Computer Science Paper 1

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





	○ Cost
	The units of data storage:
	o Bit
	 Nibble (4 bits)
	• Byte (8 bits)
	 Kilobyte (1000 bytes or 1 KB)
	• Megabyte (1,000 KB)
Units	• Gigabyte (1,000 MB)
	• Terabyte (1,000 GB)
	 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
	Characters
	The use of binary codes to represent characters
Data storage	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.: • 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:
	 The quality of the image
	 The size of an image file
	Sound
	<u> </u>





	How sound can be sampled and stored in digital form
	 The playback quality
	 The size of a sound file
	The need for compression
Compression	Types of compression:
	o Lossy
	 Lossless
	Types of networks:
	 LAN (Local Area Network)
	 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:
	• Wireless access points
	 Routers
Networks and topologies	 Switches
	 NIC (Network Interface Controller/Card)
	 Transmission media
	The Internet as a worldwide collection of computer
	o DNS (Domain Name Server)
	 Hosting
	• The Cloud
	 Webservers and Clients
	 Star and Mesh network topologies
	Modes of connection:
	o Wired
	• Ethernet
Wired and wireless networks,	 Wireless
protocols and layers	Wi-Fi
	Bluetooth
	Encryption
	IP addressing and MAC addressing
	, , , , , , , , , , , , , , , , , , ,





	Standards
	Common protocols including:
	 TCP/IP (Transmission Control Protocol/Internet Protocol)
	 HTTP (Hyper Text Transfer Protocol)
	 HTTPS (Hyper Text Transfer Protocol Secure)
	 FTP (File Transfer Protocol)
	 POP (Post Office Protocol)
	 IMAP (Internet Message Access Protocol)
	 SMTP (Simple Mail Transfer Protocol)
	The concept of layers
	Forms of attack
	 Malware
	 Social engineering, e.g. phishing, people as the
Threats to computer systems and networks	'weak point'
	Brute-force attacks
	O Denial of service attacks
	Data interception and theft
	 The concept of SQL injection
	Common prevention methods:
	 Penetration Testing
	 Anti-malware software
Identifying and preventing vulnerabilities	o Firewalls
	 User access levels
	• Passwords
	o Encryption
	 Physical Security
Ethical, legal, cultural and environmental impact	Impacts of digital technology on wider society including.
	o Ethical issues
	 Legal issues
	 Cultural issues
	Cultural issues Environmental issues
	 Privacy issues

Computer Science Paper 2

Topic

Key information

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Computational thinking	Principles of computational thinking
	 Abstraction
	 Decomposition
	 Algorithmic Thinking.
	Identify the inputs, processes, and outputs for a problem
Designing, creating and refining algorithms	Structure diagrams
	Create, interpret, correct, complete, and refine algorithms using:
	 Pseudocode
	 Flowcharts
	 Reference language/high-level programming language
	Identify common errors
	Trace tables
	Standard searching algorithms:
	 Binary search
	 Linear search
Searching and sorting algorithms	Standard sorting algorithms:
sorting argorithms	 Bubble sort
	 Merge sort
	 Insertion sort
	□ The use of variables, constants, operators, inputs, outputs and
	assignments
	The use of the three basic programming constructs used to control the
Programming	flow of a program:
fundamentals	• Sequence
	 Selection Iteration (count and condition controlled loops)
	 Iteration (count- and condition- controlled loops)
	The common arithmetic operators
	The common Boolean operators AND, OR, NOT
	The use of data types:
	 Integer Real
Data types	o Real
	Boolean Character and string
	Character and string
	 Casting
	The use of basic string manipulation
Additional	The use of basic file handling operations:
programming	 The use of basic file handling operations: Open
	The use of basic file handling operations:





	◦ 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
Defensive design	Defensive design considerations:
	 Anticipating misuse
	 Authentication
	Input validation
	Maintainability:
	o Use of sub programs
	o Naming conventions
	o Indentation
	o Commenting
	The purpose of testing
	Types of testing:
	o Iterative
	○ Final/terminal
	Identify syntax and logic errors
Testing	Selecting and using suitable test data:
	o Normal
	o Boundary
	o Invalid
	o Erroneous
	Refining algorithms
Boolean logic	□ Simple logic diagrams using the operations AND, OR and NOT
	Truth tables
Boolean logic	Combining Boolean operators using AND, OR and NOT
	Applying logical operators in truth tables to solve problems
Languages	Characteristics and purpose of different levels of programming
	language:
	 High-level languages
	 Low-level languages
	The purpose of translators
	The characteristics of a compiler and an interpreter
	Common tools and facilities available in an integrated development
	environment (IDE):





The Integrated Development Environment (IDE)	○ Editors
	 Error diagnostics
	 Run-time environment
	 Translators

