

Year 10 Trial Exams

Monday 15th April – Friday 26th April 2024

Revision Guide

Year 10 Trial Examination Timetable 15/04/2024 to 26/04/2024

**Exams take place in Hall (unless overflow room required due to numbers) and AA in Stage/Conference room unless otherwise stated.
CHECK SEATING PLANS daily for [exact.room/seat.number](#). Be prompt and sit in the correct seat/room!**

	Mon (A) 15-Apr	Tues (A) 16-Apr	Wed (A) 17-Apr	Thur (A) 18-Apr	Fri (A) 19-Apr	Mon (B) 22-Apr	Tues (B) 23-Apr	Wed (B) 24-Apr	Thur (B) 25-Apr	Fri (B) 26-Apr
Registration 8.40am-9.00am								<i>Studio students work experience day</i>		
Periods 1 & 2 9.00am Start	Maths Paper 1 (1hr)	English Literature Macbeth Paper (1hr)	Biology (Combined 1hr; Separate 1hr 15mins)	Maths Paper 2 (1hr)	Physics (Combined 1hr; Separate 1hr 15mins)	Geography (1hr) Drama (1hr 15mins; 14 students who don't do Geography)	Maths Paper 3 (1hr)	Media Studies (1hr 15mins) Music (1hr 15mins)	Chemistry (Combined 1hr; Separate 1hr 15mins)	Psychology (1hr 30mins) Hospitality (1hr 20mins; 17 students who don't do Psychology)
Break 1 11am - 11.30am										
Periods 3 & 4 11.30am Start	French Reading (Foundation 45mins; Higher 1hr) Spanish Reading (Foundation 45mins; Higher 1hr)	RS (1hr 45mins)	Computer Science Paper 1 (1hr)	French Writing (Foundation 1hr; Higher 1hr 15mins) Spanish Writing (Foundation 1hr; Higher 1hr 15mins)	English Literature Jekyll and Hyde Paper (1hr)	History (1hr) Drama (1hr 15mins; 3 students who also study Geography)	English Language (1hr 45mins)	Business Studies (1hr 30mins)	Computer Science Paper 2 (1hr) Dance (1hr 30mins)	PE (1hr 15mins) Hospitality (1hr 20mins; 2 students who also study Psychology)
Break 2 1.30pm - 2.00pm	Extra Timers ONLY: Note after Periods 3 & 4, 1 hr 45 mins exam, if your extra time extends into Break 2, you will still be able to have 30 mins break. However, you must be in the Canteen by 2pm before going to your Period 5 lesson at 2.15 pm. This will be monitored and checked by the Senior Leadership Team.									
ET Lunch 1.45pm - 2.15pm										
Period 5 2.00pm - 3.00pm										
YOU ARE EXPECTED TO PROMPTLY RETURN TO LESSONS AS SOON AS THE EXAM HAS FINISHED.										

Maths (Higher)

Number and length of exams

The year 10 exam will consist of 3x1 hour papers. The first of these papers will be non-calculator, followed by 2 calculator papers. Content can be examined on any given paper.

Content that will be on the exam

Learning overview - Higher Unit 1 Data

I can ...	Mathswatch clip	Sparx code
draw and interpret frequency polygons.	129	U840
draw and interpret back-to-back stem and leaf diagrams.	128b	U200, U909
draw and interpret frequency polygons		
draw and interpret pie charts.	128	U172, U508
draw and interpret time series	153	U590, U193
draw scatter graphs and lines of best fit; understand correlation, interpolation, extrapolation, and outliers.	129	U199, U277, U128
draw and interpret two-way tables.	61	U981
Identify errors in graphs		
Identify misleading graphs		
Mean, mode, median and range from discrete data	130a	U526, U456, U260, U291
Mean, mode, median and range from stem and leaf diagrams	128b	U909
Mean, mode, median and range from a frequency table	130b	U569
Mean, mode, median and range from a grouped frequency table	130b	U877
Comparing two sets of data using averages		U717

Learning overview - Higher Unit 2 Algebra

I can ...	Mathswatch clip	Sparx code
Simplify algebraic expressions using the rules of indices.	33, 34, 35	U105, U662
Generate linear Sequences and find the nth rule	103	U498,
Use patterns and sequences	104	U978
generate terms of a Fibonacci-like or geometric sequence.	37, 104	U680
find the formula of the nth term of a quadratic sequence.	213	U206
expand and simplify single brackets	93, 134a	U179,
factorise expressions linear expressions	94,	U365
solve equations with the unknown on both sides, and/or involving fractions or brackets.	100, 135	U870
Expand and simplify double brackets	134b	U768
Expand triple brackets		U606
factorise quadratic expressions	157,158	U178,
Factorising quadratic expressions where $a > 1$	192	U858
Difference of two squares	158	U963
Use the quadratic formula	191	U665
Complete the square	209	U397
Read and draw inequalities on a number line	138	U509

Find Integer values that satisfy inequalities	139	U738
Solve Inequalities	139	U145
Solve quadratic inequalities	212	U133
distinguish between expressions, equations, identities, and formulae.	94, 157	
substitute values into formulae	95	U585,
change the subject of a formula.	190	U556
Algebraic proof	193	U582

Learning overview - Higher Unit 3 – Number skills

I can ...	Mathswatch clip	Sparx code
Round to any given decimal places		U298
Round to any given significant figures	90	U956, U731
Estimate calculations	91	U225
Understand place value by using a calculation to work out another.	92	U976
Use a calculator correctly	77	U926
Truncating		U108, U301
convert a number to its prime factors, including the use of index notation and to apply to questions in context.	28, 78	U739
Find the HCF and LCM for at least two numbers and apply to worded questions.	79, 80	U250
identify and apply the laws of indices.	82	U235
Use fractional Indices	131, 154, 188	U235
Use negative Indices	131, 154, 188	U694
convert between numbers in standard form, numbers in words and ordinary numbers.	83	U330, U534
use the four operations with numbers written in standard form.	83	U264, U290
Calculate standard form on a calculator	83	U161
Simplify surds using the four rules of arithmetic	207a, 207b	U633, U338, U872 U707
Expand brackets involving surds	207b	U499
Rationalise the denominator with a single term	207c	U707
Rationalise the denominator with two terms	207c	U281
Write error Intervals	155	U657
Use upper and lower bounds in calculations	206	U587

Learning overview - Higher Unit 4-Angles, Pythagoras and Trigonometry

I can ...	Mathswatch clip	Sparx code
use angle facts, including the angles properties of triangles and quadrilaterals, to find the size of unknown angles.	121, 123	U329, U826
use the sum of the interior or exterior angles of a polygon to find the size of an interior or exterior angle, or the number of sides of a regular polygon.	123	U427
use angle facts to write simple proofs.		U655 U471
Use the correct angle notation		U655
use Pythagoras' theorem to find the lengths of sides and sizes of angles in right-angled triangles.	150	U385

use Pythagoras' theorem to decide whether a triangle is right-angled.	150	U385
Draw and measure bearings	124	U525
Use bearings not drawn to scale	124	U107
Draw/sketch trig graphs and be aware of key points		U450
recall the exact values of the sine, cosine and tangent of some angles.	173	U627, U319
use trigonometry to find the lengths of sides and sizes of angles in right-angled triangles.	168	U605, U283, U545
Angles of elevation and depression		U967
Pythagoras and trigonometry in 3D shapes	217, 218	U170
Sine rule	202a	U952
Cosine rule	202b	U591
Area of a non-right-angled triangle	203	U592

Learning overview - Higher Unit 5- Probability

I can ...	Mathswatch clip	Sparx code
Product rule for counting		U369
Use sample space diagrams	126	U104
Use two-way tables	61	U104
Use the fact that $P(A \text{ or } B) = P(A) + P(B)$ for mutually exclusive events.	60	U683
Identify dependent and independent events.	61, 204	
Find expected frequency.	125	U166, U580
Use tree diagrams for independent events	151	U558,
Use tree diagrams for conditional probabilities.	175	U729, U246, U806
Understand set notation for Venn diagrams	127a, b	U748
Complete a Venn diagram	127	U476
Calculate probabilities from a Venn diagram	185	U699

Learning overview: Higher Unit 6- Fractions, Decimals, Percentages and Ratio

I can ...	Mathswatch clip	Sparx code
Four rules with fractions	38, 71a, 73, 74	U793, U224, U538
Reciprocals	76	
Calculate fractions of an amount	72	U881, U916
Multiply and divide decimals	66, 67	U293, U868
Write a recurring decimal to a fraction	177	U689
Understand percentage multipliers		
Percentage of an amount	86, 87	U881, U916
Percentage change	109	U773, U671
Reverse percentages	110	U286
Calculate simple Interest	111	U533
Calculate compound Interest	142	U332
calculate with rates of pay and rates of change.	105	U988, U256
Fraction, decimal, percentage comparison.		U888
simplify ratios and write ratios as unit ratios.	105	U687
share an amount in a given ratio.	42	U577
Combine two ratios	165b	U595
Read map scales and use scale drawings		U257
use ratios to solve problems, including currency conversion.	106	U610

solve problems using direct proportion.	40, 108	U721
recognise direct and indirect proportion and use the relationship to calculate values.	199	U721, U357
write and use formulae for direct and indirect proportion.	194	U407, U138
Four rules with algebraic fractions	210a	U685, U457, U824
Simplifying algebraic fractions	210a	U103, U437, U294,
solve equations involving algebraic fractions with variables in the denominators.	210b	U505
Calculate speed, distance and time	142	U151
use the formulae for density and pressure.	142	U910, U527
use the kinematics formulae.		
convert between compound units.	142	U151,

Revision Materials

The best way to revise Maths is to do Maths.

Websites: www.vlemathswatch.com www.corbettmaths.com www.onmaths.com

Practice Papers: DrFrostMaths.com www.mathsgenie.co.uk www.sparxmaths.uk

You also need to learn all the key facts/formula on the LEARN ME PowerPoint assigned to you on Satchel.
And of course, there is your class exercise book.

Maths (Foundation)

Number and length of exams

The year 10 exam will consist of 3x1 hour papers. The first of these papers will be non-calculator, followed by 2 calculator papers. Content can be examined on any given paper.

Content that will be on the exam

Learning overview - Foundation Unit 1 Data

I can ...	Mathswatch clip	Sparx code
draw and interpret frequency polygons.	129	U840
draw and interpret back-to-back stem and leaf diagrams.	128b	U200,U909
draw and interpret frequency polygons		
draw and interpret pie charts.	128	U172,U508
draw and interpret time series	153	U590, U193
draw scatter graphs and lines of best fit; understand correlation, interpolation, extrapolation, and outliers.	129	U199,U277,U128
draw and interpret two-way tables.	61	U981
Identify errors in graphs		
Identify misleading graphs		
Mean, mode, median and range from discrete data	130a	U526, U456, U260, U291
Mean, mode, median and range from stem and leaf diagrams	128b	U909
Mean, mode, median and range from a frequency table	130b	U569
Mean, mode, median and range from a grouped frequency table	130b	U877
Comparing two sets of data using averages		U717

Learning overview - Foundation Unit 2 Number Skills

I can ...	Mathswatch clip	Sparx code
Calculate four rules with whole numbers	17, 18, 19, 20	U127, U453, U417,
calculate four rules with negative numbers.	68, 67, 68a, 68b	U742,U548
Use BIDMAS	75	U976
Use a calculator correctly	77	U926
Order numbers (positive and negative) and decimal numbers		U947, U435
Four rules with decimal numbers	17, 18, 66, 67	U478, U293, U868
estimate the answer to a calculation.	91	U225
check a calculation using inverse operations.	21	
Round to multiples of 10, 100 and 1000		U480
Round to any given decimal places	32	U298
Round to any given significant figures	90	U731, U965
use one calculation to work out the answer to another.	92	
Write error Intervals using rounding and truncating	155	U657, U108
Find factors and multiples	28	U211,
Know prime factors	28	U236
Calculate squares, cubes, square roots and cube roots	81	

Find HCF and LCM of two numbers	79, 80	U751, U529
Write a number as the product of its prime factors	78	U739, U250
Use numerical index laws	82,131	U235
Use fractional Indices	188	U772
Use negative Indices	154	U694
Convert numbers from ordinary form to standard form	83	U330, U534
Convert numbers from Standard form to ordinary form	83	U330, U534
Use a calculator with standard form	83	U161
Solve problems involving standard form	83	U264, U290
understand index notation and use the rules of indices.	29	U235, U694
recall prime numbers.	8	U236
find the LCM and HCF of two numbers, by listing or writing the numbers as products of their prime factors.	79, 80	U751, U529

Learning overview - Foundation Unit 3 Algebra skills

I can ...	Mathswatch clip	Sparx code
Use algebraic notation	7	U613
Write expressions	33, 34, 35	U613
Simplify expressions	33, 34, 35	U105
Use Index laws	33, 34, 35	U662
Substitute numbers into expressions	95	U201
Know the difference between an identity, equation, expression and formula		
Write a formula	137	
Use a formula		U585
Re-arrange formula to make a subject	102, 136	U556
Expand single brackets	93	U606
Expand double brackets		U768
Know the difference of 2 squares	158	U963
Factorise a linear expression	94	U365
Factorise and solve a quadratic equation	157	U178, U228
Solve linear equations with unknowns on one side	100, 135a	U755, U325
Solve linear equations with unknowns on both sides	135a	U870
Solve linear equations involving brackets and fractions	135a	U505
Form an equation to solve algebraic problems	137	U599
Understand Inequality notation		
Use inequalities on a number line	138	U509
State Integer values for a given Inequality		
Solve inequalities	139	U759
Identify and shade a region using Inequalities (horizontal and vertical lines only)		
Extend and generate a sequence using the term-to-term rule	37, 102	U213, U530
Find the nth rule	103	U498
Use sequences in patterns	104, 163	U958
Decide whether a number is in a sequence.		

Learning overview - Foundation Unit 4 – Fractions, percentages and ratio.

I can ...	Mathswatch clip	Sparx code
Covert between mixed and Improper fractions		U692
Simplify fractions and find equivalent fractions	25, 26	U646
Compare and order fractions	70	U746, U439
Find a fraction of an amount	72	U881, U916
Add, subtract, multiply and divide fractions including ones with mixed numbers.	71a, 73, 74	U736, U793, U475, U224 U544, U538
Convert fractions to decimals	84	U888
Convert percentages to decimals	85	U888
Find a reciprocal of a number	76	
Convert percentages to decimals	85	U888
Convert percentages to fractions	85	U888
Find one number as a percentage of another	88, 89	U925
Find the percentage of an amount	86, 87	U554, U349
Calculate percentage increases and decreases	108	U773, U671
Calculate percentage change	109	U773, U671
Calculate reverse percentages	110	U286
Calculate simple Interest	111	U533
Calculate compound Interest	164	U332
Write a ratio	38, 39	U687
Simplify a ratio	38	U687
Share an amount into a given ratio	106	U577
Write a ratio as 1:n		U865
Solve ratio problems		U407, U138
Combine two ratios		U921
Use scale drawings and map scales		U257
Use the unitary method to work with proportion	42	
Use direct proportion		U721
Calculate inverse proportion		U357
Use exchange rates	105	U610
Interpret rates of change graphs	107	
Use best buys	41	
Use recipes	39	
Calculate speed, distance and time	142	U151
Calculate Mass, density and volume	142	U910
Calculate pressure, force and area	142	U527

Learning overview - Foundation Unit 5 Angles

I can ...	Mathswatch clip	Sparx code
Name 2D shapes	10	U121
Identify parallel and perpendicular lines in 2D shapes		
Identify acute, obtuse and reflex angles in 2D shapes	13	
Recall angle facts	45	U390, U730
Measure an angle	46a	U447
Draw an angle	46b	U447
Find angles in any type of triangle	121	U628
Find angles in quadrilaterals	123	U732
Find Interior and exterior angles of a polygon	123	U427
Find angles in parallel lines	120	U826
Use equations to solve angles in geometric problems		U329
Use the correct angle notation and key words to write angle reasons.		
Measure a bearing	124	U525
Draw a bearing	124	U525
Solve bearings problems which are not drawn to scale using angle facts	124	U107

Learning overview - Foundation Unit 6 - Probability

I can ...	Mathswatch clip	Sparx code
Use the probability scale	14	U803,
Understand equally likely events	59	U408, U510
Understand mutually exclusive events	60	U683
Use a sample space diagram	58, 126	U104
Complete and design a two-way table	61	U981
Understand relative frequency	125	U166
Complete a frequency tree diagram	57	U280
Complete a tree diagram and calculate probabilities from one for independent events.	151	U558
Complete a tree diagram and calculate probabilities from one for conditional events.	175	U806
Complete a Venn diagram	127a	U476
Read probabilities from a Venn diagram		U748
Understand set notation	127b	U296

Revision Materials

The best way to revise Maths is to do Maths.

Websites: www.vlemathswatch.com www.corbettmaths.com www.onmaths.com www.sparxmaths.uk

Practice Papers: DrFrostMaths.com www.mathsgenie.co.uk

You also need to learn all the key facts/formula on the LEARN ME PowerPoint assigned to you on Satchel. And of course, there is your class exercise book.

English

The Year 10 English exams will be a Language Paper 1 exam (AQA) and Literature Papers on Macbeth and Jekyll and Hyde (EDEXCEL). Ensure you know what each question is asking of you and then revise content and skills.

English Language (AQA):

Use Mr Bruff and other videos on YouTube for quick tutorials on each question. Listen to podcasts on GCSEPOD.

REVISE THE KNOWLEDGE ORGANISERS IN YOUR BOOKS – ASK YOUR TEACHERS IF YOU HAVEN'T GOT ONE

Paper 1:

Section A: ONE TEXT

Q1 – find four facts

Q2 – author's use of language: extract

Q3 – author's use of structure: whole text

Q4 – evaluation of statement: techniques used by author to help you evaluate (judge) the validity of the statement.

REVISE FROM YOUR ORANGE BOOKS THIS YEAR FOR HOW TO ANSWER THESE QUESTIONS.

Read any Literature texts (use your class Lit texts for added revision):

- Annotate paragraphs for effective language.
- Annotate structural points: Look at the beginning and ending of a chapter. Look for changes in topic, character, setting, mood etc.
- Create debates: 'To what extent do you agree that the writer....' (think of ideas around character, tension, setting etc)

Section B:

Creative / descriptive writing: Pick images to write a response to

Plan descriptions of things like a storm / a crash / night-time /

Remember your techniques around language and structure!

Follow a plan like this:

- 1 One-word sentence to set the time and one simple sentence to set the scene.

Noon. The clouds gathered to suggest a storm.

- 2 Describe the setting in more detail

More than one paragraph if needed. Aim to use interesting language / sentence range / punctuation.

- 3 Change focus to a character (s) / background info / purpose / what they're doing and why?
- 4 A SHORT ONE FOR EFFECT: Zoom in on a thought or feeling or a solo character if above has been a group.
- 5 Flashback! Connected to where you / they are now: something to link them.
- 6 Back to the present and how they feel after remembering – what will they do now or what is happening now?
- 7 Repeat the simple sentence from the beginning: (slight change if necessary but they love a repeat).

English Literature (EDEXCEL):

Jekyll & Hyde: 1 hour – two questions. Part A = extract analysis, Part B = whole text exploration / discussion.

Revise quotations around character, setting, plot, themes, structure.

For all quotations highlight key words, techniques, context links and WHY Stevenson has done this. Remember: Stevenson reveals / changes / adds / etc

• Part A- Practice with extracts from the text: Create a question around theme, setting or character and write a 30-minute response around language analysis.

Find a theme in that extract and explore ideas from the novel as a whole. *How does Stevenson present _____ in the novel as a whole?*

Remember for Part B responses: a discursive, critical response - 3-4 moments from the play explored and WHY Stevenson has done this.

Macbeth: 1 hour – two questions. Part A = extract analysis, Part B = whole text exploration / discussion.

Revise quotations around character, plot, themes, structure, and CONTEXT.

For all quotations highlight key words, techniques, exploring the effect of the language. Remember: Shakespeare reveals / changes / adds / etc

• Part A- Practice with extracts from the play: Create a question around theme or character and write a 30-minute response around language analysis.

Find a theme in that extract and explore ideas from the play as a whole. *How does Shakespeare present _____ in the novel as a whole?*

Remember for Part B responses: a discursive critical response: 3-4 moments from the play explored with context links and WHY Shakespeare has done this.

Revision Materials for both Language and Literature:

Sample papers for further language Paper 1 practice are available

from: <https://www.aqa.org.uk/subjects/english/gcse/english-language-8700/assessment-resources>

Exemplar responses can be found here: <https://www.mbrogcseenglish.com/>

Sample papers for further Lit practice are available from: (Macbeth Qs in paper 1 / Jekyll in paper 2)

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/english-literature-2015.news.html?article=%2Fcontent%2Fdemo%2Fen%2Fnews-policy%2Fqualifications%2Fedexcel-gcses%2Fenglish%2Fnew-specimen-papers-for-gcse-english-literature-2015>

Other useful revisions resources are:

- <https://classroom.thenational.academy/subjects-by-year/year-11/subjects/English> (For both Language and Literature revision)
- Mr Bruff's YouTube Channel also has a range of revision videos on both Language and Literature.
- Excellent revision notes on the lit texts: [Edexcel GCSE \(9-1\) English Revision - PMT \(physicsandmathstutor.com\)](http://physicsandmathstutor.com)

Science

Number and length of exams There will be 1 exam for each of the Sciences which will all last:

- Combined science: 1 hour
- Triple science: 1 hour 15 minutes
-

Content that will be on the exam

Biology (separate biology in *italics*)

Cell Biology

- Cells
- Microscopes
- cell differentiation and specialisation
- chromosomes and mitosis
- Binary Fission
- Culturing Microorganisms
- Stem Cells
- Diffusion
- Osmosis
- Active Transport
- Exchange Surfaces
- Exchanging substances

Organisation

- Cell organisation
- Enzymes
- Investigating Enzymatic reactions
- Enzymes and Digestion
- Food Tests
- The lung
- Circulatory system – the heart, blood vessels, blood
- Cardiovascular disease
- More on Cardiovascular disease
- Health and disease
- Risk factors for Non-Communicable diseases
- Cancer
- Plant organisation
- Transpiration and Translocation
- Transpiration and stomata

Infection and Response

- Communicable disease
- Viral
- Fungal and Protist diseases
- Bacterial diseases and Preventing Disease
- fighting disease – vaccination and drugs
- Developing Drugs
- *Monoclonal Antibodies*
- *Plant diseases and Defences*

Bioenergetics

- Photosynthesis and Limiting Factors
- The rate of Photosynthesis

Chemistry (separate chemistry in *italics*)

Atomic structure and the periodic table

- atoms, elements, compounds
- equations
- mixtures: chromatography, separation techniques, distillation
- history of the atom
- electronic structure
- development of the periodic table
- the modern periodic table
- metals and non-metals
- group 1,7 and 0 elements
- *transition metals*

Bonding, structure and properties of matter

- formation of ions
- ionic bonding
- ionic compounds
- covalent bonding
- simple molecular structures
- polymers and giant covalent structures
- allotropes of carbon
- metallic bonding
- states of matter
- changing state
- *nanoparticles*

Quantitative chemistry

- Relative formula mass
- the mole
- conservation of mass
- the mole and equations
- limiting reactants
- concentrations of solutions
- *titrations*
- *percentage yield and atom economy*
- *volume of gases*

Chemical changes

- reactivity of metals
- displacement reactions
- making salts
- neutralisation and pH

Physics (separate physics in *italics*)

Energy

- energy stores and systems; power; energy transfers in a system
- *required practical investigating the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material*
- efficiency
- National and global energy resources

Electricity

- current, potential difference and resistance
- required practical using circuit diagrams to set up and check appropriate circuits to investigate the factors affecting the resistance of electrical circuits
- required practical using circuit diagrams to construct appropriate circuits to investigate the I-V characteristics of a variety of circuit elements including a filament lamp
- a diode and a resistor at constant temperature
- series and parallel circuits
- domestic uses and safety
- energy transfer

Particle Model of Matter

- changes of state and the particle model
- required practical determining the densities of regular and irregular shaped solids and liquids

Atomic structure

- atoms and isotopes
- *nuclear fission and fusion*

Forces

- scalar and vector quantities
- contact and non-contact forces
- gravity
- resultant forces (1D only)
- distance and displacement
- speed
- velocity
- the distance-time relationship
- Newton's laws of motion

Waves

- waves in air, fluids, and solids
- required practical making observations to identify the suitability of apparatus to measure the frequency, wavelength, and speed of waves in a ripple tank and waves in a solid and take appropriate measurements
- *required practical activity to investigate the reflection of light by different types of surface and the refraction of light by different substances*
- *lenses*

Revision Materials

Revision guides, revision workbooks, revision cards and 10-minute tests, all available from the student office

<https://www.gcsepod.com/>

[Tassomai](#)

Computer Science

Number and length of exams

There will be 2 exams which will both last 1 hour and 30 minutes.

Content that will be on the exam

Paper 1	Paper 2
<p>Algorithms:</p> <ul style="list-style-type: none"> • Computational thinking • Trace tables • Flowcharts • Pseudocode • Linear search • Binary search • Bubble sort • Merge sort • Relational operators • Arithmetic operators <p>Programming</p> <ul style="list-style-type: none"> • Assignment and input/output • Types of data • Selection • Arithmetic operators • Relations operators and selection • Definite iteration • Indefinite iteration • Arrays/Lists 	<p>Data representation:</p> <ul style="list-style-type: none"> • Denary, binary and hexadecimal conversions • Binary addition and binary shifts • Units of measure • Representation of characters • Representation of images • Representation of sound • Methods of compression (RLE and Huffman) <p>Computer Systems:</p> <ul style="list-style-type: none"> • Logic gates • Classification of software • Operating Systems • Hardware – CPU, memory, • Fetch execute cycle • Storage • Cloud storage • Software

Revision Materials

- AQA website for past papers
<https://www.aqa.org.uk/subjects/computer-science-and-it/gcse/computer-science-8520>
- BBC Bitesize
<https://www.bbc.com/bitesize/subjects/z34k7ty>
- Computer Science Tutor on YouTube
<https://www.youtube.com/channel/UCsBxhDfwURg-vQASN2ZeHwg>
- Your exercise book
- Your homework book
- Your end of unit tests
- MS Teams work

Psychology

Number and length of exams

There will be 1 exam which will last 1 hour and 30 minutes.

Content that will be on the exam

You could be assessed on any of the work you have done so far in Year 10. The topics are as follows:

- Research Methods - could include designing your own study (Section D style questions) and/or answering Research Methods questions about a fictional study (a "source")
- Criminal Psychology - could include Key Concepts, Social Learning Theory, Eysenck's Theory, Cooper and Mackie's study, Heaven's Study and Methods of Rehabilitation and Punishment

Psychological Problems- could include mental health, the prevalence of schizophrenia, symptoms of schizophrenia and explanations of schizophrenia.

Revision Materials

Students can purchase the revision guide linked below:

<https://www.amazon.co.uk/My-Revision-Notes-GCSE-P-psychology/dp/1510423222>

Additional revision resources will be available under "Files" in your Psychology Team.

Religious Studies

Number and length of exams

There will be one exam that lasts 1 hour 45 minutes. You need to revise the following topics:

Content that will be on the exam

<p>CHRISTIANITY – BELIEFS</p> <ul style="list-style-type: none"> • Nature of God • Trinity • Life after Death and salvation • Jesus’ birth • Crucifixion, resurrection and ascension <p>CHRISTIANITY – PRACTICES</p> <ul style="list-style-type: none"> • Eucharist, including different celebrations • Baptisms – infant and adult • Easter • Christmas • Mission and evangelism • Work of the church in local and global communities – charity, food banks, street pastors 	<p>THEME A</p> <ul style="list-style-type: none"> • Relationships • Contraception • Sex outside marriage • Homosexuality • Marriage • Divorce • Polygamy <p>THEME B</p> <ul style="list-style-type: none"> • Nature of creation • Religious and scientific explanations for creation • Use of environment • Animal testing • Abortion • Euthanasia
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Revision Materials

You should use:

- Your exercise books
- AQA Religious Studies website (<https://www.aqa.org.uk/subjects/religious-studies/gcse/religious-studies-a-8062>)
- BBC Bitesize (<https://www.bbc.com/bitesize/subjects/zb48q6f>)
- Mr McMillan REvis on YouTube (<https://www.youtube.com/channel/UCtOLJWPWAcxF37iQOUtOA>)
- AQA GCSE RS textbooks in U19

History

Number and length of exams

There will be 1 exam which will last 1 hour

Content that will be on the exam

You will be assessed on the following topics:

Medicine stands still

- Influence of Hippocrates & Galen in the Middle Ages
- Role of religion – Christianity & Islam
- Brutal surgery
- Public health & the Black Death

Beginnings of change

- Progress in surgery & anatomy (work of Pare, Vesalius, Harvey & Hunter)
- Old ideas still dominated the treatment of disease – until Jenner's discovery of vaccination
- Public health & the Great Plague of 1665

Revolution in medicine

- Pasteur discovers the Germ Theory (& the work of Robert Koch)
- Revolution in surgery (anaesthetics & anti-septics)
- Cholera & the gradual improvement of public health by the end of the 19th century

Modern medicine

- Magic Bullets & the development of penicillin
- Modern surgery, including blood transfusions
- Improvements in public health & the creation of the National Health Service

Revision Materials

You should use:

- Your exercise books
- Revision guide
- BBC bitesize
- Knowledge organiser- video links

Geography

Number and length of exams There will be 1 exam which will last 1 hour

Content that will be on the exam

The Living World

-Ecosystems

Example-small scale UK ecosystem Nap Wood

Ecosystems as a natural system. Understanding of producers, consumers, decomposers, food chain, food web and nutrient cycling

Tropical Rainforests characteristics

Deforestation

Case-Study-Malaysian Tropical Rainforest (Causes of deforestation, impacts and Issues)

Sustainable management of tropical rainforests

-Cold Environments

Distinctive characteristics of cold environments

Animal and Plant Adaptation

Case-Study-Development opportunities and Challenges Svalbard (Norway)

Economic development risk in cold environments

Strategies to conserve cold environments

Physical Landscapes

-UK Physical Landscapes

Location of major upland/ lowland areas and river systems

-Rivers

Cross Profiles

River processes

Landforms of erosion

Landforms of erosion and deposition

Landforms of deposition

Example-River Tees in UK

Flood risk-human and physical factors

Hydrographs

Hard Engineering Strategies

Soft Engineering Strategies

Example-Flood Management in Banbury (why required, the management strategy, the social economic and environmental issues)

-Coasts (5)

Wave types and characteristics

Coastal processes

Landforms resulting from erosion

Landforms resulting from deposition

Example- UK coastline at Swanage

Costs and Benefits of:

Hard Engineering

Soft Engineering

Managed retreat

Example- UK Coastal Management Lyme Regis (The reasons for management, the management strategy, the resulting effects and conflicts)

Business

Number and length of exams

One exam which will last 1 hour 30 mins

Content that will be on the exam

You will be assessed on everything you have studied since September (Unit 1, Unit 2 and Unit 3 as appropriate)

Q1-15 - 15 multiple choice questions

Q16-18 – different business context given for each question, questions based around this (1-9 mark questions)

The exam tests three skills:

- AO1 Demonstrate **knowledge and understanding** of business concepts and issues
- AO2 **Apply** knowledge and understanding of business concepts and issues to a variety of contexts
- AO3 **Analyse and evaluate** business information and issues to demonstrate understanding of business activity, make judgements and draw conclusions

Revision Materials

- In your books, is the syllabus – use it
- Use class/homework questions
- Past Paper 1 papers and mark schemes on the Business Team
- GCSE pod/Bitesize

French and Spanish

Number and length of exams

For each subject there will be a reading exam (45 minutes Foundation / 1 hour Higher) and a writing exam (1 hour Foundation / 1 hour 15 minutes Higher) and a listening exam (35/45 minutes) which will take place in class. The Speaking exams will take place week of 29th April. Your class teacher will give you an appointment time to attend.

Content that will be on the exam

This will require revision of vocabulary (using sentence builders), grammar (using exercise books, help sheets, revision books, help and support booklets) Students should also ensure they know the question words and the language used in questions and instructions.

All students will be told by their class teacher which tier they are sitting for the trials, and they will complete all 4 skills (Speaking after the week of trial exams).

Foundation writing will include description of a picture (4 sentences), short writing task based on 4 bullet points (40 words), sentences to translate into the target language and a 90-word writing task (choice between 2 questions offered). Higher writing will include: a 90-word writing task, a paragraph to translate into target language and a 150-word writing task.

The Reading paper will include a passage to translate into English.

The Listening paper will be done in class with your class teacher.

The Speaking exam will be scheduled after the written papers-dates above.

Revision Materials

Sentence Builders-in books and in files in our class teams.

Vocab-Quizlet.com-create an account and search for AQA GCSE (French/Spanish) Module1 (8 modules in total)

French Seneca-Seneca | GCSE French Revision (senecalearning.com)

Spanish Seneca-Seneca | GCSE Spanish Revision (senecalearning.com)

French-Bitesize-GCSE French - AQA - BBC Bitesize

Spanish-Bitesize-GCSE Spanish - AQA - BBC Bitesize

[ZUT - Language Skills](#) - user 10045 password zut

[OYE - Language Skills](#) - user 2869 password oje

Use other exam board's reading and listening past papers and mark schemes -Edexcel, Eduqas and OCR

PE

Number and length of exams

There will be 1 exam which will last 1 hour and 15 minutes

Content that will be on the exam

The exam will have content from all the work we have completed in Year 10. The topics are as follows:

- Muscular system
 1. Types of muscle
 2. Muscle locations
 3. Functions of each muscle
 4. Antagonistic muscle action
 5. Muscle fibre types
- Actions at joints
- Levers
- Axes and planes
- Fitness, health, exercise & performance
- Fitness components
- PARQ & fitness tests
- Principles of training
- Methods of training

Revision Materials

- GCSE website for past papers
<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/physical-education-2016.coursematerials.html#filterQuery=Pearson-UK:Category%2FSpecification-and-sample-assessments>
- BBC Bitesize
<https://www.bbc.com/bitesize/examspecs/zxbg39q>
- PE Tutor on YouTube
https://www.youtube.com/results?search_query=gcse+PE+tutor
- Levers video
<https://www.youtube.com/watch?v=OdM2jWg2uEE>
- Your exercise book
- Your revision guide
- Your revision workbook

Drama

Number and length of exams

1. Practical assessment of a devising workshop session
2. One written exam lasting ONE hour on Section A (4x1 mark questions) and Section B Blood Brothers (4, 8 and 12 mark questions)
3. A homework live theatre essay based on Billy Elliot

Content that will be on the exam

Your examination will be of the way you engage with a practical workshop focused on devising skills and your knowledge of theatre roles and styles and the 4-, 8- and 12-mark Blood Brothers questions based on one given extract.

Revision Material

We will let you know in advance the extract of Blood Brothers that you will be asked about.

Remember – Your 4 mark question will focus on a design element. Your 8 mark question will focus on the vocal and physical delivery of ONE given line. Your 12 mark question will focus on your performance of a named character and their interaction with other actors and the space.

Reading your copy of Blood Brothers as well as well as the given extract will also be useful revision.

Use BBC Bitesize (AQA) for revision of theatre terms, roles and styles.

Complete the quizzes on SATCHEL.

Music

Number and length of exams

Your examination will be: One Listening exam focussing on: The Elements of Music, Written music theory and Area of Study 3: Film music; One solo performance assessment; and One ensemble performance assessment.

Content that will be on the exam

Listening exam 1 hour (approx.): (40%)

Music theory

- Listening questions on the Elements of Music (Dynamics, Structure, Instrumentation, Harmony, Rhythm and Metre, Melody, and Texture)
- Theory questions on: pitch notation (treble and bass clef), rhythmic notation, Time signatures, key signatures, intervals (both written and heard)

AOS3: Film Music

- Listening analysis of how composers have use the Elements of Music to convey action on screen, this will be unheard music, with a series of short and long answer questions.

Solo Performance: (30%)

- Level of difficulty of the piece (what grade it is)
- technical control
- expression and appropriate interpretation
- accuracy of rhythm and pitch
- appropriate pace and fluency
- effective use of dynamics
- stylistic awareness

Ensemble Performance: (30%)

- You will be assessed on all of the above and
- Awareness of others when playing (how you respond to the performers around you)

Revision Materials

Listening exam links:

- Use [Focus on Sound](#) (speak to Miss Senior if you have forgotten your log in). You should be using the interactive lessons and tests to help you focus on each of the areas of this exam.
- Use [GCSE Music - Eduqas - BBC Bitesize](#), focus on the Music Theory sections and the Film music sections for this exam
- Use [musictheory.net](#) for additional information about theory notation and intervals.

Suggested practice (revision) time as follows:

- Solo performance: 30 minutes every other day. Each day focus on a different part of the assessment criteria. For example, one practice session could be focused on technical control and accuracy, ensuring that all of the notes are being played correctly and for the right amount of time.
- Ensemble performance: practice your part for 20 minutes every other day. Practice as a band at least once a week.

Dance

Number and length of exams

1. One written exam lasting 1 hour 30 minutes (40%)
2. Practical assessment will be a solo performance of the set phrases Shift and Breathe (60%)

Content that will be on the written exam

Your examination will comprise of:

Section A: General knowledge of choreography and Performance

- An unseen choreography stimulus with questions linked to planning a choreography, knowledge of action, space, dynamics, relationships, choreographic devices, and structural devices.
- Performance Skills: physical skills, expressive skills - their importance to a dancer and how they can be improved.

Section B: Own Practice

- Developing performance skills in the preparation and performance of the set phrases.
- Extended question on your recently devised trio choreography and how your choices linked to your choreographic intent.

Section C: Set works A Linha Curva and Shadows

- Short answer questions.
- Two 12 mark questions on each of the set works.

Revision Material:

All revision material can be accessed on the OneDrive folder for everything covered for the written paper:

[GCSE Dance Resources for Students](#)

Practical: Set Phrases – Solo Performance

For your practical assessment, you must ensure you are thoroughly prepared to dance both set phrases as a soloist. We will be dancing both phrases in class in the run up to the exam, and you would have completed an informal assessment of both phrases before Easter with feedback to help you target any improvements needed. Additional practise time is advised outside of lessons to develop confidence in your accuracy and personal interpretation of the two dances.

Support Materials: Set Phrases

AQA GCSE Dance: [AQA | Teaching guide: Set phrases](#)

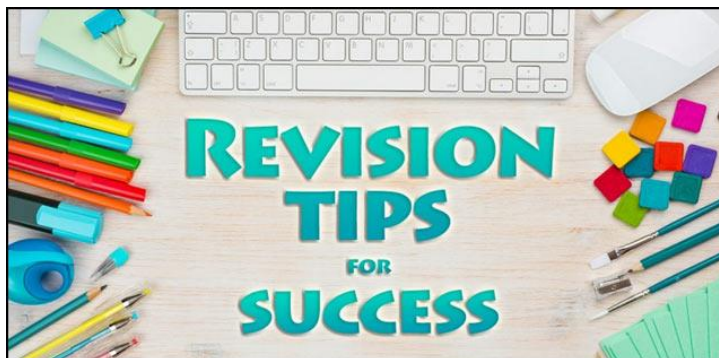
Revision Tips

1. Set up the perfect study space

Make sure that it is well lit, not too hot or cold and quiet enough for you to work.

2. Start with the biggest or most difficult

It might seem easier to start with the smaller or easiest bits but by tackling the biggest, most challenging topics first you'll feel more confident in the long run!



3. Take regular breaks

It's important to ensure that you take regular breaks, you need to rest your brain to process the information you're learning. Arrange time with friends and family or watch a bit of Netflix (just be sure not to binge watch a whole series!)

4. Use the best methods for you

By now, you'll have an idea which revision techniques work best for you and don't be afraid to use a new one if you're struggling to absorb a topic. Do whatever works best for you.

5. Look ahead and make a plan

Look at your exam timetable and create a revision plan based on it. It'll help to keep your revision organised.

6. Eat healthily

Make sure to eat three healthy meals a day and limit your caffeine and sugar intake. Power foods for your brain include blueberries, salmon and nuts, so be sure to stock up!

7. Move distracting apps out of view

Your phone can be a huge help for revision, but also a huge distraction! Move any apps that are likely to distract you to the last page, so you aren't tempted. Add apps that can help you (like the GCSE Pod app!) to your home screen as a reminder to keep up with revision.

8. Exercise

A healthy body = a healthy mind. Try and do at least 20 minutes of physical activity a day to help improve focus and stay relaxed.

Revision Techniques

There are some English literature specific revision techniques on the next page. These techniques are useful for most subjects!

1. Summary Posters

Use key words, pictures and definitions to design a poster on a topic or a whole subject. Put the summary poster up in your room and regularly look at it.

2. Idea Mapping

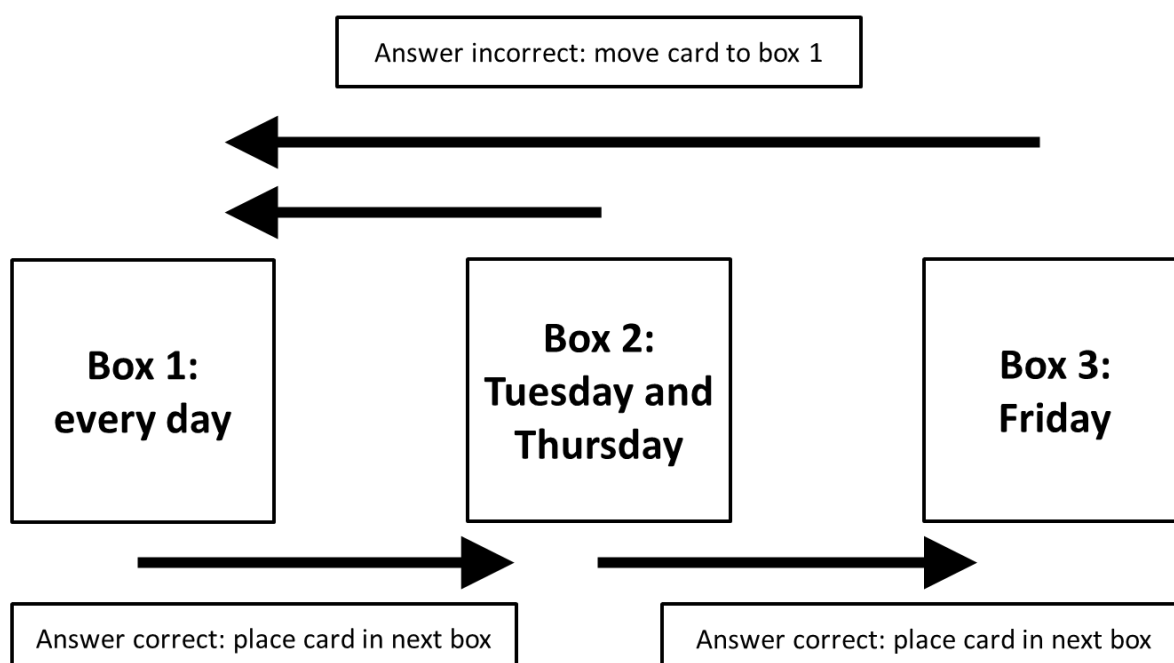
Summarise what you've learnt by creating an idea-map. Start by putting the name of the topic in the centre of a piece of paper. Add branches (like a tree) and add additional key words to each branch which are associated with the main topic. Keep adding more detail as the branches become smaller and use images and colours as well as words to help the information stand out.

3. Flash Cards

Summarise the topic on a flash card or post it note, use only the key words, symbols, dates, quotes and places. On the flipped side of the card, write the topics name. This will help you when you come to test your knowledge. For example, 'what were the causes of WW1' and on the reverse put the key points. When you test yourself, simply look at the topics name and see if you can remember everything on the other side of the card without looking.

Use flashcards for things you need to memorise, such as definitions or equations. Have three boxes in your room for your flashcards and use them like this:

Self-testing flashcards



4. Question yourself

Try to improve your knowledge by asking yourself questions such as: Who? When? Where? Why? What? How?

5. Practice Exam Questions & Past Papers

Practising exam questions and past papers helps to perfect your exam techniques whilst checking your knowledge and highlighting any gaps you may have.

6. Mnemonics

A mnemonic is a code that you create using acronyms, phrases or rhymes and it's designed to help you recall knowledge easily. For example, if you have to remember the order of the colours in the visible spectrum (red, orange, yellow, green, blue, indigo, violet) you could use this mnemonic to help you remember: 'Richard of York Gave Battle in Vain'. The first letter of each word in the sentence refers to the first letter of the colour.

7. Note-Taking

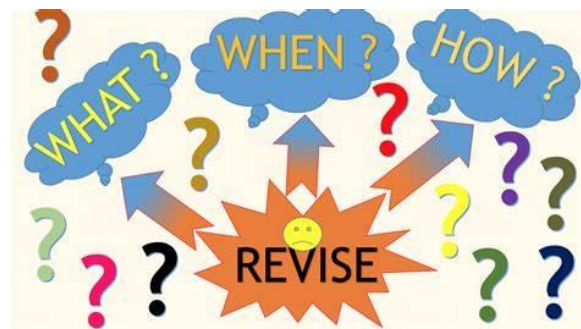
Notes help to improve your understanding of a topic in your own words. Keep your notes brief and don't forget to highlight key words, quotes and dates.

8. Timeline

Design a timeline for those subjects where chronology is important, like history, English literature, psychology. They are invaluable for making sense of a series of events or plot. Use key dates and imagery to help you.

9. Ask your teacher!

Some subjects are running revision sessions in the lead up to trial 1. Go to these sessions for some extra help!





REVISION TIMETABLE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
9AM							
10AM							
11AM							
12PM							
1PM							
2PM							
3PM							
4PM							
5PM							
6PM							