

YEAR 11

MATHS, ENGLISH AND SCIENCE INFORMATION EVENING





Mathematics





The new grading structure is being introduced, from grade 9 to 1, to replace the familiar A* to G grading scale. 9 will be the highest grade, 1 the lowest.

How is it assessed?

100 % exam Three papers each 80 marks Each paper 1.5 hours

Grades available

Higher 4-9 Foundation 1-5

Grade 7 anchored to a grade A

Grade 4 anchored to a grade C

Date of exam

19th May 6th June 14th June





Tier of Entry

Grades available Higher 4-9 and Foundation 1-5

Crossover grade 4 and 5 (4 is equivalent to a grade C)

Review assessments and regular mini mocks exam papers in classroom . Mock in November , full mock in March.

Final decision with regards tier needs to be made later in March

However we will enter students for the tier they have best opportunity of achieving the highest grade.





Topic checklists on Show my homework

HIGHER - Grades 4 – 9

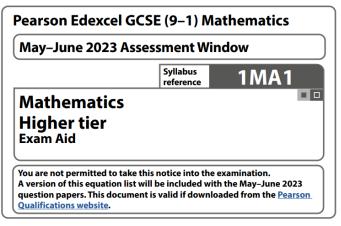
Algebra

l can do this	Grade	Title
	9	Approximate solutions to equations using iteration.
	9	Equation of a circle
	9	Equation of a tangent
	8	Algebra and Proof
	8	Gradients and area under a graph
	8	Graphs of trigonometric functions
	8	Quadratic equations (completing the square)
	7	Composite functions
	7	Expand the product of two or more binomials
	7	Factorising difficult quadratic expressions
	7	Geometric Sequences
	7	Graphs of exponential functions
	-	Quadratic equations (needing

l can do this	Grade	Title
	6	Quadratic equations (graphical methods)
	6	Represent linear inequalities
	6	Simultaneous equations (linear)
	5	Algebraic argument
	5	Algebraic terminology
	5	Cubic and Reciprocal graphs
	5	Deduce quadratic roots algebraically
	5	Derive an equation
	5	Equation of a line
	5	Expand the product of two binomials
	5	Factorising quadratic expressions
	5	Fibonacci, quadratic and simple geometric sequences
	5	Graphical solution to equations
	5	Inequalities on number lines
	5	Linear equations
	5	Quadratic graphs
	5	Reciprocal real-life graphs
	5	Simplify indices







Instructions

• Please ensure that you have read this aid before the examination.

Information

- A formula sheet will be provided for foundation tier and for higher tier students.
- The format/structure of the assessments remains unchanged.
- This exam aid provides students with additional exam formulae which they may refer to in their examinations.
- Please note, a copy of this exam aid will be made available to all students on the day of the examination as an insert in the question paper.
- The Advance
 Information
 document for
 Maths has been
 shared with
 students on Show
 My Homework





Students should be using MyMaths.co.uk to help them revise (password will be in your pack), regular revision material has been set since September

Bringing maths alive		Assessment Manager Help Log out Q Search Search
		My portal Username Password Login ?
Library	Shape	Filter: Everything
Algebra	2D and 3D shapes	2 Position and turning f
Shape	Angles	> S Measuring angles f
fSkills	Area and perimeter	5 Bearings fh Plotting and measuring three figure bearings. Bearings help ships and planes to
Booster packs	Circle theorems	know where they are and where they are going. Find out how.
tatistics	Construction	Lesson 💭 Online homework 🕐
CSE	Converting units	
GCSE	Measures	5 Angle sums f
OXFORD	Pythagoras	(5) Angle reasoning f





Pinpoint booklet

Personalised booklet of weaker areas based on November exam

Personalised booklet will be in you student pack which has already been given to students

Students can also log into website and see additional personalised booklets from previous exams, using their passwords which again are in your pack

www.pinpointlearning.co.uk

Topic 1: Percentage of an amount. Mathswatch clip: 87 Topic 2: Probability. Mathswatch clip: 59 Topic 3: Proportion Problem Solving 1.

Mathswatch clip:

Topic 4: Fractions + - / x.

Mathswatch clip: 71

Topic 5: Sequences. Mathswatch clip: 103





Colour coded regards understanding

Pinpoint booklet			Suggested GCSE level							
3	131	Simple Index Form	-	-	-	-	0% ★	-	100% ★	Improved
3	33	Collecting Like Terms	-	-	100% ★	0% ★	-	100% ★	0% ★	Decline - revise again!
3	NA	Draw the Correct Chart	-	-	-	-	-	50% ★ ★	-	Tested Once Only
3	38	Equivalent ratios	-	-	-	33% ★ ★	-	0% ★	-	Consistent Weakness
3	22	Cost and Money Problems	-	-	-	-	-	-	100% ★	Tested Once Only

Students have also received an overview of topics identifying strengths and weaknesses for all their formal maths exams

www.pinpointlearning.co.uk





Revision material available to purchase through parent pay







Summary

Revision sessions started in October and a copy of the revision timetable for Mathematics will also be in your student pack

Welcome to attend any revision sessions but they do have suggested grades next to the session

Additional support on SMH, including topic lists, question a day and answers. Half term h/vhas also been set for February

Students have been given copies of exam papers with solutions

Additional packs of model solutions on our school website

Weekly tasks have been set through mymaths

Your child will soon receive an envelope with a copy of the revision timetable, mymaths letter and pinpoint booklet.

Any issues please contact maths teacher, or KS4 lead J Paris j.paris@fairfax.fmat.co.uk, or H a.ashton@fairfax.fmat.co.uk





Recommended maths websites

<u>www.examsolutions.net</u> www.mathsgenie.co.uk <u>www.mathsapp.pixl.org.uk</u> <u>www.corbettmaths.com</u> <u>www.edexcel.co.uk</u>

School website – numerous papers/resources/model solutions/mark schemes





English

Director of Faculty – Mrs K Ford k.ford@fairfax.fmat.co.uk

Key Stage 4 and Year 11 Intervention Lead – Miss J Gardner j.gardner@fairfax.fmat.co.uk





In English all students follow the same pathway:-

GCSE English Language – AQA

http://www.aqa.org.uk/subjects/english/gcse/english-language-8700

AND

GCSE English Literature – AQA http://www.aqa.org.uk/subjects/english/gcse/english-literature-8702

There is only one level of entry – papers aren't tiered.





Provisional Exam Dates

GCSE English Language Paper 1 – 5th June – 1 hour 45 minutes (am) Paper 2 - 12th June – 1 hour 45 minutes (am)

GCSE English Literature Paper 1 – Shakespeare and the 19th Century Novel 17th May – 1 hour 45 minutes (am) Paper 2 - Modern Texts and Poetry 24th May – 2 hours 15 minutes (am)



Outline of Course GCSE English Language

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Assessments

All texts in the examination will be unseen.

Paper 1: Explorations in Creative Reading and Writing

What's assessed

Section A: Reading

one literature fiction text

Section B: Writing

· descriptive or narrative writing

Assessed

- written exam: 1 hour 45 minutes
- 80 marks
- 50% of GCSE

Questions

Reading (40 marks) (25%)- one single text

- 1 short form question (1 x 4 marks)
- 2 longer form questions (2 x 8 marks)
- 1 extended question (1 x 20 marks)

Writing (40 marks) (25%)

· 1 extended writing question (24 marks for content, 16 marks for technical accuracy)

Paper 2: Writers' Viewpoints and Perspectives

What's assessed

Section A: Reading

· one non-fiction text and one literary non-fiction text

Section B: Writing

· writing to present a viewpoint

Assessed

- written exam: 1 hour 45 minutes
- 80 marks
- 50% of GCSE

Questions

Reading (40 marks) (25%) - two linked texts

- 1 short form question (1 x 4 marks)
- 2 longer form questions (1 x 8, 1 x 12 marks)
- 1 extended question (1 x 16 marks)

Writing (40 marks) (25%)

1 extended writing question (24 marks for content, 16 marks for technical accuracy)

t

on-examination Assessment: Spoken Language

What's assessed

(AO7-AO9)

- presenting
- · responding to questions and feedback
- use of Standard English

Assessed

- · teacher set throughout course
- · marked by teacher
- separate endorsement (0% weighting of GCSE)



Outline of Course GCSE English Literature



Assessments

All assessments are closed book: any stimulus materials required will be provided as part of the assessment.

All assessments are compulsory.

Paper 1: Shakespeare and the 19th-century novel	Paper 2: Modern texts and poetry
What's assessed	What's assessed
Shakespeare plays (page 11) The 19th-century novel (page 11)	Modern prose or drama texts (page 11) The poetry anthology (page 12)
How it's assessed	Unseen poetry (page 13)
written exam: 1 hour 45 minutes	How it's assessed
64 marks 40% of GCSE	written exam: 2 hour 15 minutes
	 96 marks 60% of GCSE
Questions	
Section A Shakespeare: students will answer one question on their play of choice. They will be	Questions
required to write in detail about an extract from the play and then to write about the play as a whole.	Section A Modern texts: students will answer one essay question from a choice of two on their studied modern prose or drama text.
Section B The 19th-century novel: students will answer one question on their novel of choice. They will be required to write in detail about an extract from the novel and then to write about the novel as a whole.	Section B Poetry: students will answer one comparative question on one named poem printed on the paper and one other poem from their chosen anthology cluster.
L I	Section C Unseen poetry: Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.





Revision Sessions and Additional Support

Mrs Ford and Miss Hickling run open sessions for all students on Wednesday between 3pm and 3.45pm in C8 and C3. In addition, other sessions run throughout the week, led by Faculty staff. Some sessions are targeted and are run on an invitation basis, others are open.

Students can support their revision by referencing homework set on

Show My Homework and using revision booklets on the



school website.

Show My Homework



Resources to help you Web links







Faculty of English – Year 11 Revision Sessions							
Session Times	Session Details	Room	Teacher				
Monday 3-4pm – invitations sent directly to students	Masterclass Sessions Invitation Only Please see Mrs Ford or Miss Gardener for more details.	See separate timetable	KRF, JQG, JAH, WSG, CXB, CAF				
Wednesday 3-3.45pm	Open Revision Session – English Literature	C8	KRF				
Wednesday ^{3-3.45pm}	Open Revision Session – English Language	C3	JAH				
Wednesday	Miss Williams' Group	A14	HYW				
Lunchtime	Miss Flinter's Group	C5	CAF				
Thursday 8-8.30am and registration	Invitation Only/By Request Session	C8	KRF				
Thursday	Miss Williams' Group	A14	HYW				
Thursday 3-3.30pm	Ms Samuels' Group	A12	TSS				
Thursday ^{3-3.45pm}	Miss Flinter's Group	C5	CAF				
Friday	Miss Gardner – Open Session	C7	JQG				

Additional small group revision sessions run throughout the week and after school with our English Coach after half term. Please contact Mrs Ford (<u>K.ford@Fairfax.fmat.co.uk</u>) if you would like further information.

FAIRFAX SINCERITAS LABORIS

twittery

Pinned Tweet



Mr Bruff @MrBruffEnglish · Feb 4

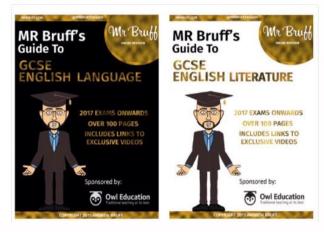
Grade 9 analysis of all power & conflict poems youtube.com/playlist?list=... & all love & relationships poems youtube.com/playlist?list=... please RT!



Mr Bruff @MrBruffEnglish - Feb 4

Going to do a giveaway for my two GCSE guides. To enter, retweet my NEXT tweet (about 42 videos). Draw at 10pm





Mr Bruff @MrBruffEnglish · 17h Please retweet: Power and Conflict Revision Rap: 15 Quotations to Music youtu.be/dABvuspS9Vo?li... via @YouTube

Mr Bruff @MrBruffEnglish · Jan 15

youtube.com/playlist?list=...

43



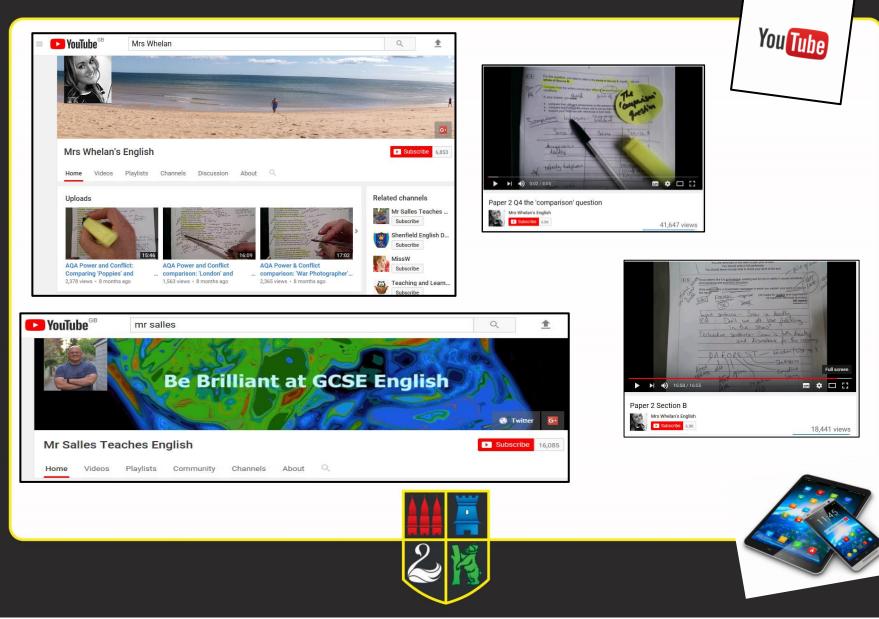
Power and Conflict Revision Rap: 15 Quotations to... See the explanation of the quotations here: https://youtu.be/RkJdEaKTIYg Download for free on iTunes (podast 32): https://itunes.apple.com/gb/podcas... voutube.com

9 videos on 'The Sign of Four' by Arthur Conan Doyle - Analysis





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What can we do at home?

Revise using AQA sample questions AND mark schemes:-

GCSE English Literature

Teaching from: September 2015

Exams from: June 2017 Specification code: 8702 QAN code: 601/4447/6

We have worked closely with teachers to design our English Literature specification to inspire, challenge and motivate every student, regardless of ability level.

A range of texts is included to cater for the needs of teachers and students in all educational contexts. There are texts that will be familiar, as well as new ones that will inspire young readers.

It's fully co-teachable with GCSE English Language, so students will benefit from the transferable skills.

Specification >

Specification at a glance >

Specimen papers and mark schemes >



La Download specification

GCSE English Language

Teaching from: September 2015 Exams from: June 2017

Specification code: 8700 QAN code: 601/4292/3

Our specification is designed to inspire and motivate your students, providing appropriate stretch and challenge whilst ensuring that the assessment and texts are, as far as possible, accessible to all students.

It enables your students to develop the skills they need to read, understand and analyse a wide range of different texts and write clearly.

We've developed two equally-balanced papers, each assessing reading and writing in an integrated way.

Specification >

Specification at a glance >

Specimen papers and mark schemes >





Download specification



What can we do at home?

Revise using free revision resources provided on the school website...

Language Paper 1	LANGUAGE PAPER 2
In the exam there will be two sections: Section A: Reading 1 fiction text 4 questions Section B: Writing Choice of 2 questions It will take 1hour 45mins.	In the exam there will be two sections: Section A: Reading 2 non-fiction texts 4 questions Section B: Writing 1 question It will take 1hour 45mins.

...and those which will be provided by English teachers before we break up for half term.





What can you do at home?

Revise using revision guides which can be purchased by Parent Pay.







Science

Director of Faculty – Mrs L Jackson <u>l.jackson@fairfax.fmat.co.uk</u>

BiologyMr J. McCauslin (m.mccauslin@)ChemistryMiss S Kaur (s.kaur@)PhysicsMr A Hill (a.hill@)

@fairfax.fmat.co.uk





In Science students follow one of the following pathways:-

Either

AQA Separate science (3x GCSE's – Biology, Chemistry and Physics)

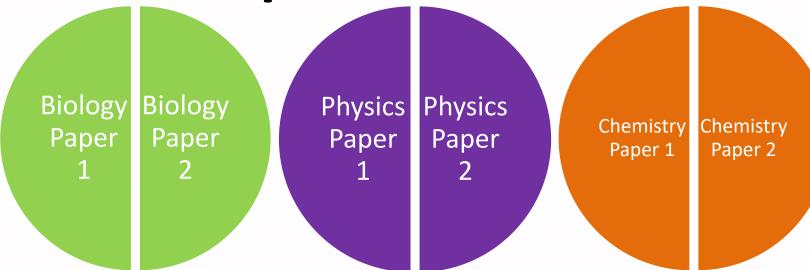
Or

AQA Combined science: Trilogy (2x GCSE's – Science)





Separate science



3 x GCSE grades

Each examination lasts 105 minutes

(a much more demanding course aimed at those hoping to study A-level science)

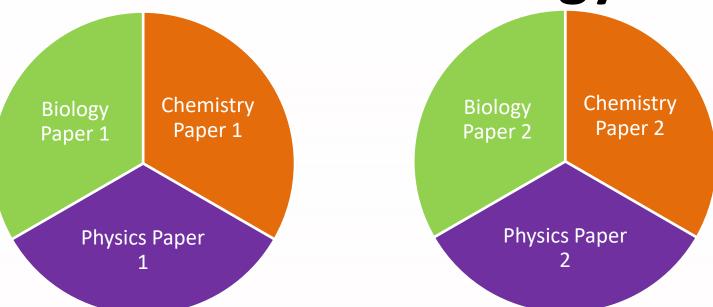
Higher tier gives 3 x grades 4 - 9



Foundation tier gives 3 x grades 1 - 5



Combined: Trilogy



2x GCSE's which are an average over all three sciences. Each examination lasts 75 minutes.

Higher tier gives 2 grades 4 - 9



Foundation tier gives 2 grades 1 - 5



ROUTE & TIER OF ENTRY

Route and tier of entry decisions are based on student progress, aptitude, effort and plans post 16. Each is judged on an individual case by case basis and the experience of the science teachers has a proven track record for success. We will guide the students to gain the best possible set of results

The new grading structure was introduced for science in 2017 and runs from grade 9 to 1

We have higher (4 - 9) and foundation (1 - 5) tiers available on both of our courses





What is (still) new for 2023?

AQA

Physics Equations Sheet GCSE Physics (8463) FOR USE IN JUNE 2022 ONLY

HT = Higher Tier only equations

kinetic energy = 0.5 × mass × (speed) ²	$E_k = \frac{1}{2} m v^2$
elastic potential energy = 0.5 × spring constant × (extension) ²	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = mass × gravitational field strength × height	$E_p = m g h$
change in thermal energy = mass × specific heat capacity × temperature change	$\Delta E = m \ c \ \Delta \theta$
power = time	$P = \frac{E}{t}$
power = work done time	$P = \frac{W}{t}$
efficiency = <u>useful output energy transfer</u> total input energy transfer	
efficiency = useful power output total power input	
charge flow = current × time	Q = It
potential difference = current × resistance	V = IR
power = potential difference × current	P = VI
power = (current) ² × resistance	$P = I^2 R$
energy transferred = power × time	E = P t
energy transferred = charge flow × potential difference	E = Q V
density = mass volume	$\rho = \frac{m}{V}$

Physics equations are GIVEN to students. They do not need to learn them – this is a massive help!



Physics Equations Sheet - GCSE Physics (8463 FOR LISE IN JUNE 2022 ONLY Turn over 🕨

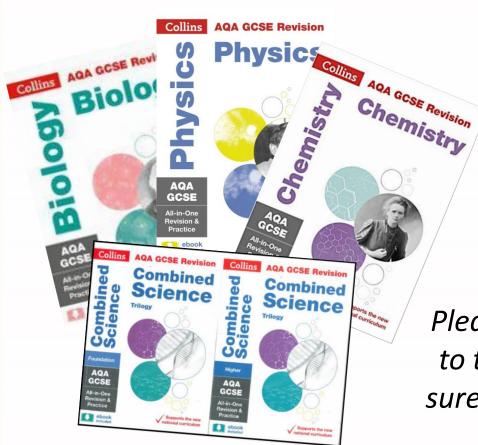




What can you do at home to support with structured revision?







Revise using the all in one revision guides which can be purchased via parent pay.

Please ask the student to speak to their teacher if they are not sure of their entry. They have all been told





Topic checklists are on Show My Homework, which show if content is found on the separates/ combined route and H/F tier.

PAPER 2:

Unit 5: Homeostasis and response

		TF	TH	SF	SH
Homeostasis	Homeostasis				
	Structure and function (The human nervous system				
	for Trilogy)				
The human nervous system	Structure and function (The human nervous system for Trilogy) Iman nervous system The brain The eye Control of body temperature Human endocrine system Control of blood glucose concentration Maintaining water and nitrogen balance in the body Hormones in human reproduction Contraception The use of hormones to treat infertility Negative feedback Control and coordination				
	The eye				
	Control of body temperature				
	Human endocrine system				
Hermonal coordination in humans	Control of blood glucose concentration				
Hormonial Coordination In Hormans	Maintaining water and nitrogen balance in the				
	Structure and function (The human nervous system for Trilogy) The brain The eye Control of body temperature Human endocrine system Control of blood glucose concentration Maintaining water and nitrogen balance in the body Hormones in human reproduction Contraception The use of hormones to treat infertility Negative feedback Control and coordination				
	Hormones in human reproduction				
	Contraception				
	The use of hormones to treat infertility				
	Negative feedback				
Planthormonos	Control and coordination				
Fight normones	Use of plant hormones				

Our March mock exams are based on Paper 2 content. This is clearly labelled in red on the checklists





Useful sources of revision support

There are blue web links on each page





Bitesize			Change language		
Home	Learn	Support	Careers	My Bitesize	All Bitesize
GCSE					

Subjects

GCSE is the qualification taken by 15 and 16 year olds to mark their graduation from the Key Stage 4 phase of secondary education in England, Northern Ireland and Wales.

Part of Learn & revise

Continue with...



Electromagnetic induction - Hi Part of GCSE Physics (Single Science) - AQA

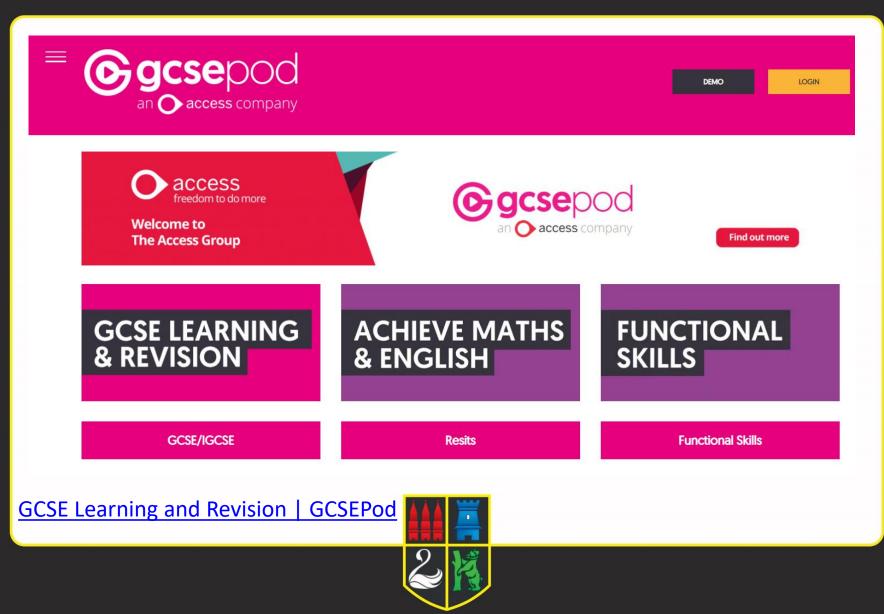
🛇 25 days ago

Select the pages for AQA combined or separate science

GCSE - BBC Bitesize









SENECA learning

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Join 6,500,000 students u	using Seneca as the funnest way to learn at KS2, KS3, GCSE & A Level. And it's free!
A brilliant FREE	Students, use for free
resource.	Teachers, use for free
Teachers can set	Parents, use for free
assignments on	Free Homework & Revision for A Level, GCSE,
there and support	KS3 & KS2 (senecalearning.com)
if there are	
problems.	213



Q

AQA | Find past papers and mark schemes

		Contact us	About us Joi	nus Login	Site search	a
Realising potential	2021/22 exam changes	Subjects	Qualifications	Professional d	evelopment	Exams admin
希 / Find past papers and	mark schemes					
Find past p	apers and marl	k schei	mes			

Find past papers and mark schemes for your exams, and specimen papers for new courses.

Find papers	Subject	Which subject?	~
	Qualification	What type of qualification?	~
	Specification	Which specification?	~
	Series	When was the exam?	~

Can't find your papers?

- · Modified past papers are listed separately and are only available for some subjects. Search for modified papers
- · We only publish question papers and mark schemes for some current specifications, in the year following the exam. See what's available when for more information
- · Some question papers and mark schemes are no longer available after three years, due to copyright restrictions (except for Maths and Science)

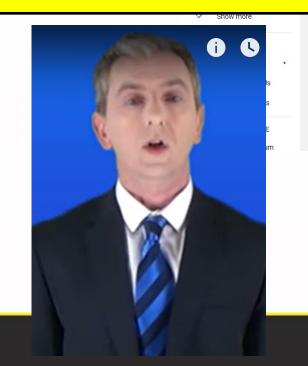
Teachers can get past papers earlier, from 10 days after the exam, in the Resources tab on Centre Services. It is important that you please keep these materials secure, and do not share them on any website, social media platform or video sharing site.

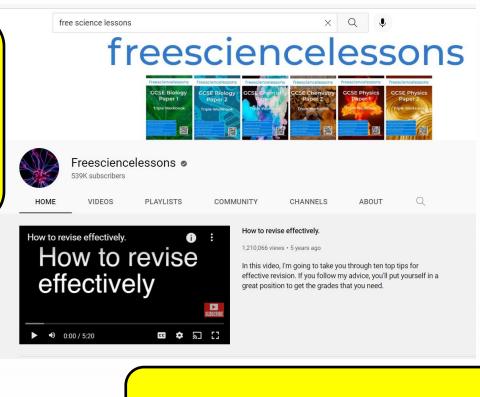
Students can also find specimen papers and mark schemes on the AQA website





Whilst not terribly popular with the students this man offers concise and helpful revision insights on youtube

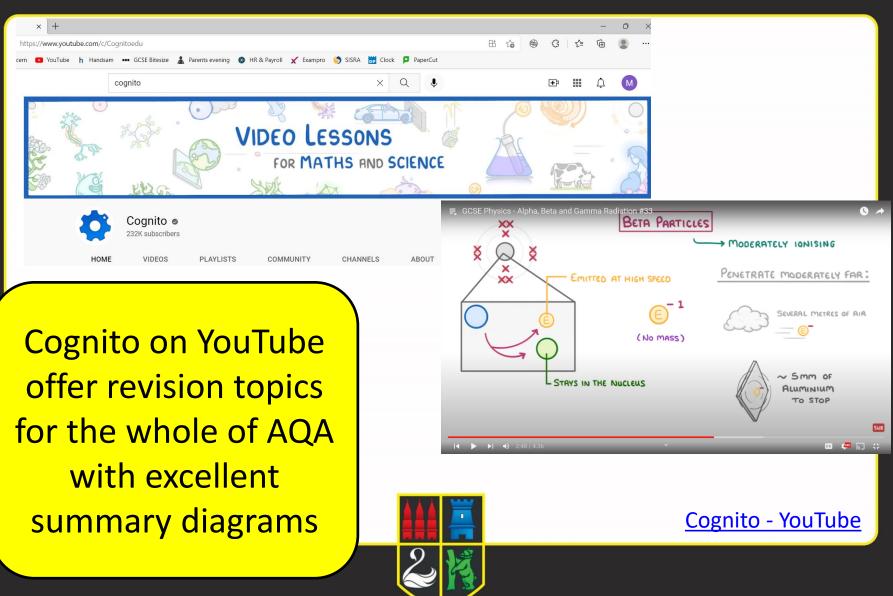




Just search free science lessons on YouTube

Freesciencelessons - YouTube







Malmesbury education on YouTube Image: Control of the control of

GCSE Science Required Practicals

10

There are 6 required practical activities for each of the three science subjects



GCSE Physics Required Practicals

Malmesbury Education





GCSE Chemistry Practicals Malmesbury Education VIEW FULL PLAYLIST



GCSE Science Required Practicals

Malmesbury Education





Thank you for your continued support

Any issues feel free to contact: <u>Mr Johnson – Vice Principal - t.johnson@fairfax.fmat.co.uk</u> <u>Mr Sheppard – Head of year 11 - a.sheppard@fairfax.fmat.co.uk</u> <u>Mrs Barker – Assistant Head of Year 11 c.barker@fairfax.fmat.co.uk</u>

