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YEAR 11

MATHS, ENGLISH AND SCIENCE INFORMATION EVENING

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Mathematics

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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

Date of exam

24th May
7th June
12th June

Grades available

Higher 4-9
Foundation 1-5

Grade 7 anchored to a grade A

Grade 4 anchored to a grade C

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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 exam papers.
Mock in November , and a mini exam in Jan and another full mock in March.

Final decision needs to be made by **Wednesday 21st March**

Suggested tier of entry for March mock exam in your packs but final tier of entry may change in light of mock grade from March paper.

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What is new?

More demanding for everyone

The volume of subject content has increased for both tier

More difficult topic introduced

The total time for the examinations is increasing, form 3 ½ hours to 4 ½ hours

In the assessments there's a greater emphasis on problem solving and mathematical reasoning

Students will be required to memorise formulae – fewer formulae will be provided in examinations

Parent guide on our website with additional information on the new changes.

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Approximately 10 teaching weeks left till their first exam….

How do I revise?

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Topic checklists on Show my homework

HIGHER - Grades 4 – 9

Algebra

I 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
	7	Quadratic equations (needing

I 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

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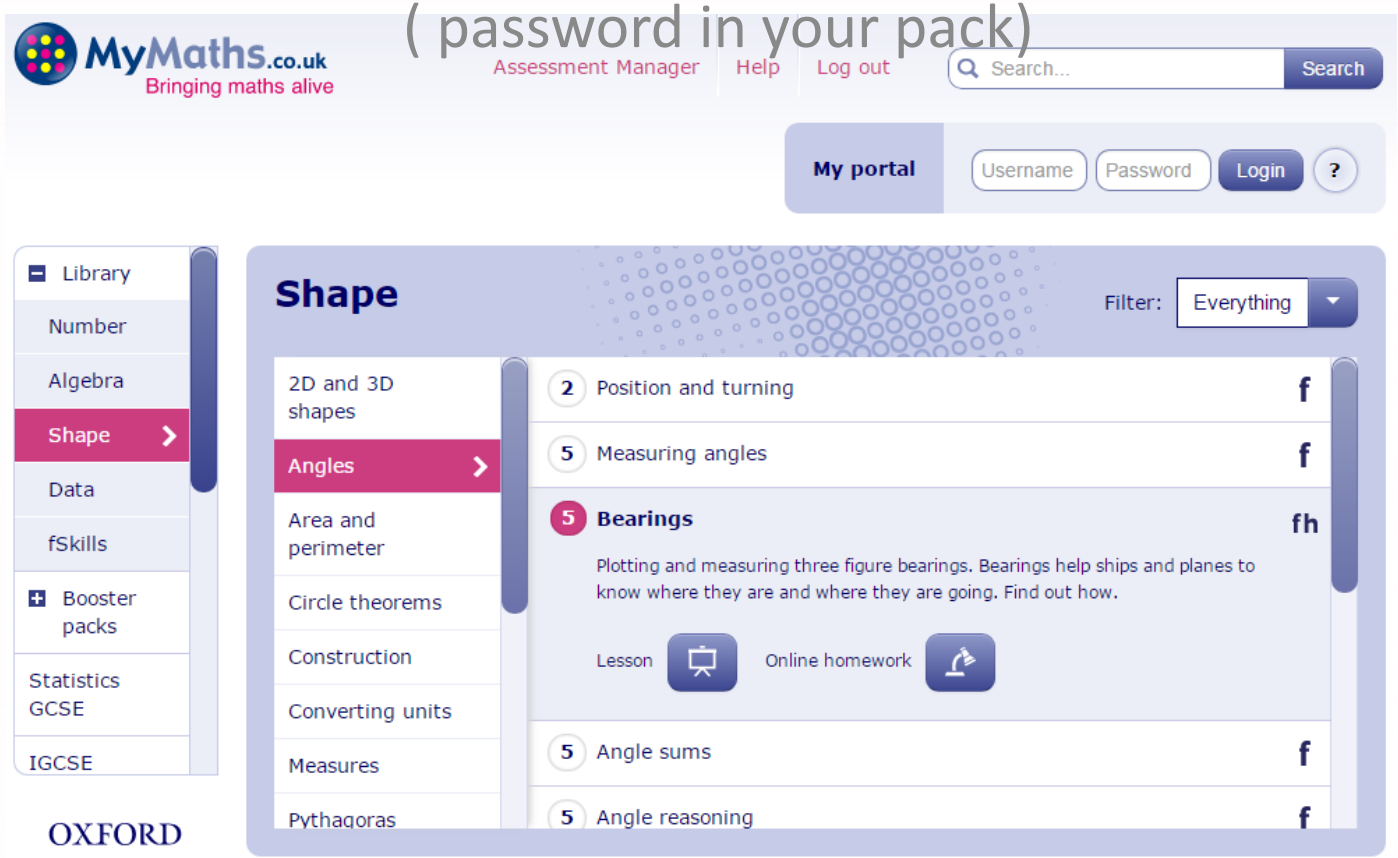
Students should be using MyMaths.co.uk to help them revise (password in your pack)



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A LITTLE BIT OF MATHS EVERY DAY ...

FEBRUARY '18

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
			1 Write 72 as a product of its prime factors	2 Convert the below fraction to a % $\frac{2}{5}$	3 A cube has a surface area of 36cm² What is the volume of the cube?	4
5 I have 6 red pens, 4 blue pens and 3 green pens. What is the probability of choosing a green pen?	6 Share £360 in the ratio 1:3:5	7 Solve $2(4x - 4) = 4$	8 Without a calculator work out 537.4 x 4.8	9 Without a calculator $\frac{3}{7} \times 420$	10 Alan, Bob and Carl play football. Alan has scored 8 more goals than Carl. Bob has scored 5 more goals than Alan. Altogether they have scored 72 goals. How many goals did they each score?	11
12 If Emma travels 10 miles in 20 minutes how many miles will she do in 1 hour 30 minutes?	13 Factorise fully $5xy + 10y^2$ Expand $4(2m + 1)$	14 Solve $5x + 1 > x + 13$	15 Write 4.31×10^{-3} as an ordinary number.	16 Solve by factorising. $x^2 + 8x + 15 = 0$	17 Complete this table for $y = 2x - 3$. x: 0, 1, 2, 3, 4 y: -3, , 1, , 5	18
19 Without a calculator work out: 1160 ÷ 5	20 Pete invests £500 at a rate of 1.5% per year compound interest. Find the value of the investment after 3 years.	21 A square has an area of 100 cm². Find its perimeter.	22 Calculate: $\frac{3}{4} + \frac{4}{5}$	23 The nth term of a sequence is given by $3n + 5$. Explain why 21 is not a term in this sequence.	24 In a sale, normal prices are reduced by 20%. The normal price of a handbag is reduced by £15 Work out the normal price of the handbag.	25
26 What is the Highest Common Factor of 18 and 22?	27 Estimate $8.6 \times \sqrt{99.7}$	28 A circle has a radius of 3cm. Work out the circumference of the	**REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!**			

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Pinpoint booklet

Personalised booklet of weaker areas based on November exam

- Personalised booklet and mark scheme for paper 1 in your envelope. Students can also log into website and see additional personalised booklets from previous exams.

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

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GCSE	Monday	Tuesday	Wednesday	Thursday
8.00-8.30	Mr Cooper C11 Target 4-6	Miss Lloyd C15 Target 4-6	Mrs Kalicharan C14 Target 3-5	
1.20 – 1.50	Mrs Beddoe A25 Level 7-9			
3-3.45		Miss Clewes C11 Up to grade 4 Mrs Lam C18 Level 4-7 Miss Paris C12 Target 7-9	Miss Sheldon C1 Target 5-8	*Miss Ashton /Miss Reid C2 ALL LEVELS

*Thursday revision with Miss Ashton has already started.

Revision sessions starting 26th February

*Thursday afterschool sessions started in October.

Welcome to attend any revision sessions.

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Revision material available to purchase through parent pay

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Recommended maths websites

www.examsolutions.net

www.mathsgenie.co.uk

www.mathsapp.pixl.org.uk

www.corbettmaths.com

www.edexcel.co.uk

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

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SUPPORT THAT IS AVAILABLE FOR YOUR CHILD IN MATHS

- Every Thursday night at 2.55pm maths staff are available to help
- An additional mock exam will be held later this term (March)
- Extra revision sessions organised from February
- Birmingham University Revision days
- Revision books/guides/discs available to purchase
- Revision timetable
- On our website number of exam papers/resources
- If you require any more information please contact your child's class teacher in first instance.

a.ashton@fairfax.bham.sch.uk (Director of Faculty - Mathematics)

a.rose@fairfax.bham.sch.uk (Subject Leader - KS4 Mathematics)

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English

Director of Faculty – Mrs K Ford
k.ford@fairfax.bham.sch.uk

Year 11 Intervention – Miss S Ahmed
s.ahmed@fairfax.bham.sch.uk

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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.

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Key Dates

GCSE English Language

Paper 1 - 5th June – 1 hour 45 minutes (am)

Paper 2 - 8th June – 1 hour 45 minutes (am)

GCSE English Literature

Paper 1 – 22nd May – 1 hour 45 minutes (am)

Paper 2 – 25th 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	Paper 2: Writers' Viewpoints and Perspectives	Non-examination Assessment: Spoken Language
What's assessed **Section A: Reading** • one literature fiction text **Section B: Writing** • descriptive or narrative writing	**What's assessed** **Section A: Reading** • one non-fiction text and one literary non-fiction text **Section B: Writing** • writing to present a viewpoint	**What's assessed** (AO7–AO9) • presenting • responding to questions and feedback • use of standard English
Assessed • written exam: 1 hour 45 minutes • 80 marks • 50% of GCSE	**Assessed** • written exam: 1 hour 45 minutes • 80 marks • 50% of GCSE	**Assessed** • teacher set throughout course • marked by teacher • separate endorsement (0% weighting 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)	**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)	

Outline of Course
GCSE English Literature

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Assessments

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

All assessments are compulsory.

Macbeth
Shakespeare

The Sign of The Four
Conan Doyle

An Inspector Calls
J B Priestley

AQA Past and Present Anthology Power and Conflict

Paper 1: Shakespeare and the 19th-century novel	Paper 2: Modern texts and poetry
What's assessed • Shakespeare • The 19th-century novel	**What's assessed** • Modern texts • Poetry • Unseen poetry
How it's assessed • written exam: 1 hour 45 minutes • 64 marks • 40% of GCSE	**How it's assessed** • 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 required to write in detail about an extract from the play and then to write about the play as a whole. **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.	**Questions** **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 Poetry:** students will answer one comparative question on one named poem printed on the paper and one other poem from their chosen anthology cluster. **Section C Unseen poetry:** Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.

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Revision Sessions and Additional Support

We run additional sessions on Tuesday in C8 and Thursday in A11 between 2.50pm and 3.50pm. Sessions are targeted and are run on an invitation basis.

In addition, students can support their revision by referencing homework set on *Show My Homework* and revision booklets on the school website.

Show My Homework

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twitter

Pinned Tweet

Mr Bruff @MrBruffEnglish · Feb 4

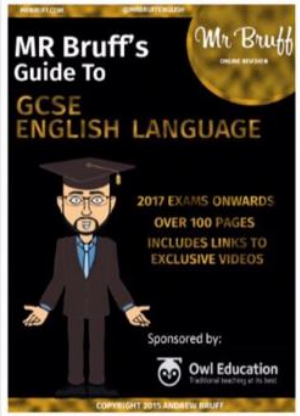
Grade 9 analysis of all power & conflict poems youtube.com/playlist?list=… & all love & relationships poems youtube.com/playlist?list=… please RT!

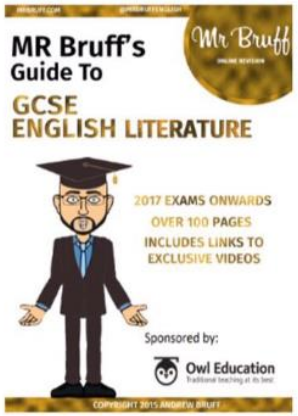
Mr Bruff @MrBruffEnglish · Jan 15

9 videos on 'The Sign of Four' by Arthur Conan Doyle - Analysis youtube.com/playlist?list=…

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

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...

youtube.com

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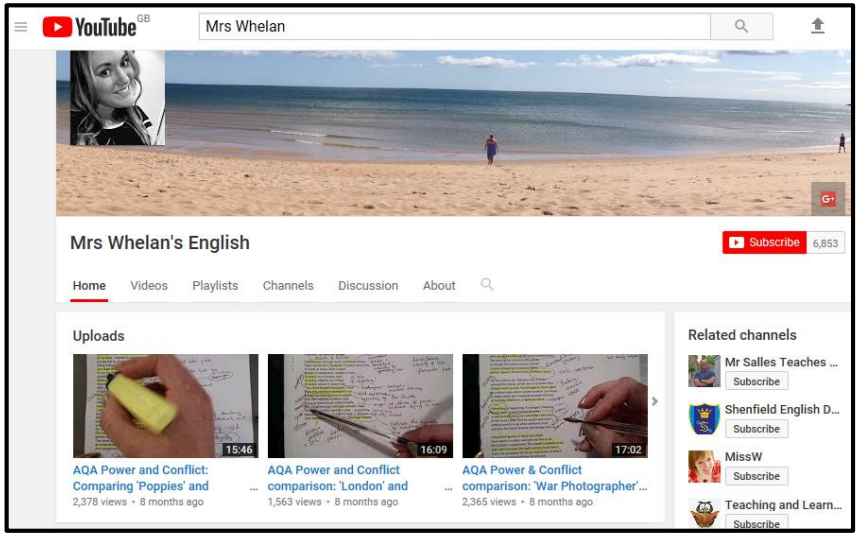

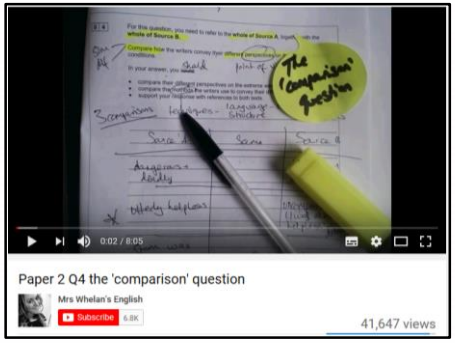

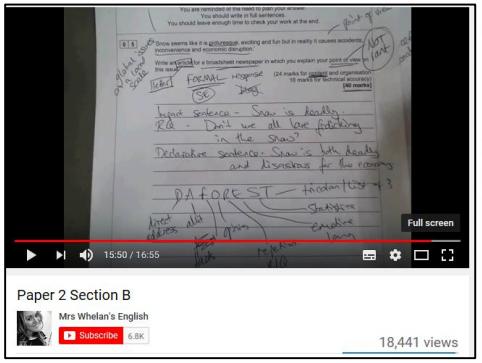

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What can we do at home?

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.

Download specification

Specification ›

Specification at a glance ›

Specimen papers and mark schemes ›

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.

Download specification

Specification ›

Specification at a glance ›

Specimen papers and mark schemes ›

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What can we do at home?

Revise using free revision resources provided:-

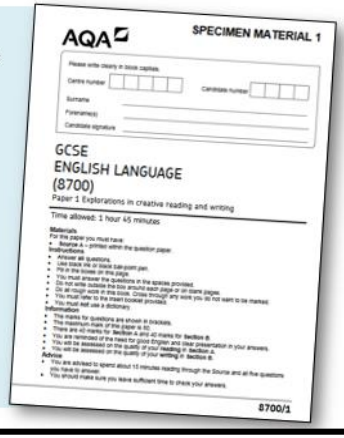
LANGUAGE PAPER 1

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**.


AQA SPECIMEN MATERIAL 1

GCSE
ENGLISH LANGUAGE
(8700)
Paper 1 Explorations in creative reading and writing

Time allowed: 1 hour 45 minutes

8700/1

LANGUAGE PAPER 2

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**.

AQA SPECIMEN MATERIAL 1

GCSE
ENGLISH LANGUAGE
(8700)
Paper 2 Writers' viewpoints and perspectives

Time allowed: 1 hour 45 minutes

8700/2

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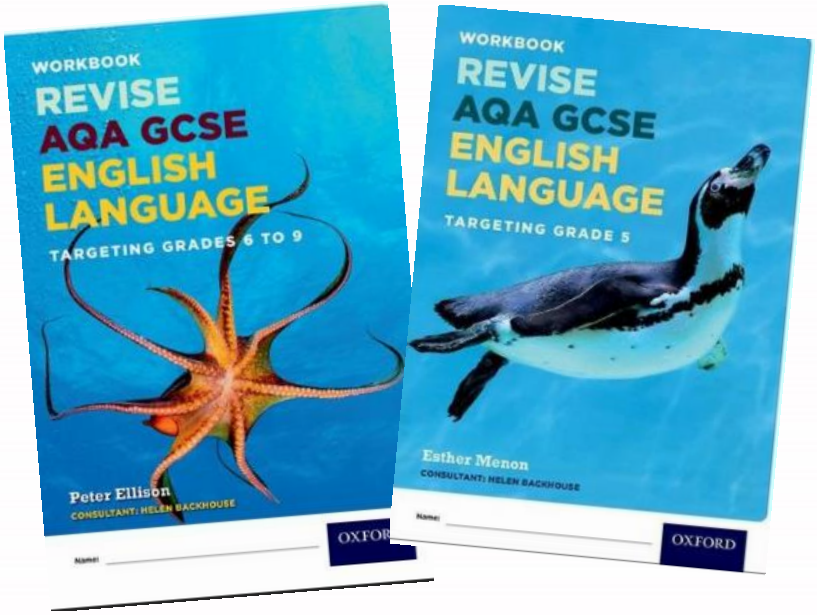
What can you do at home?

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



Books already ordered will be issued as soon as they arrive.
Please note, set texts are also available to purchase.

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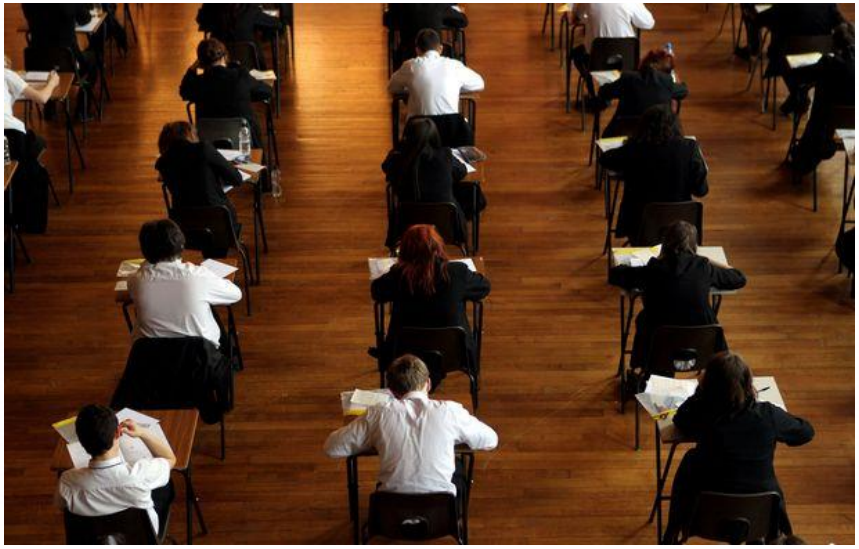
Finally…



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Science

Acting Director of Faculty – Mr. Steeden
m.steeden@fairfax.bham.sch.uk

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In Science students follow one of the following pathways:-

Either

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

Or

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

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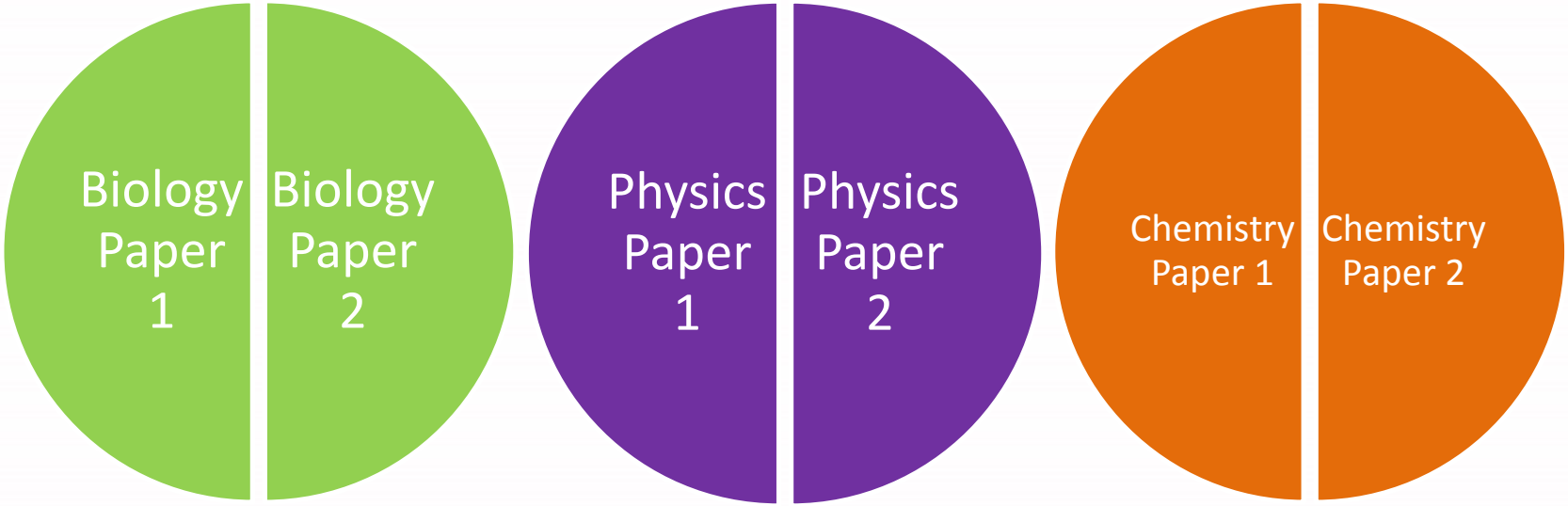
Separate science



3x GCSE's over all three sciences. Each examination lasts 105 minutes.

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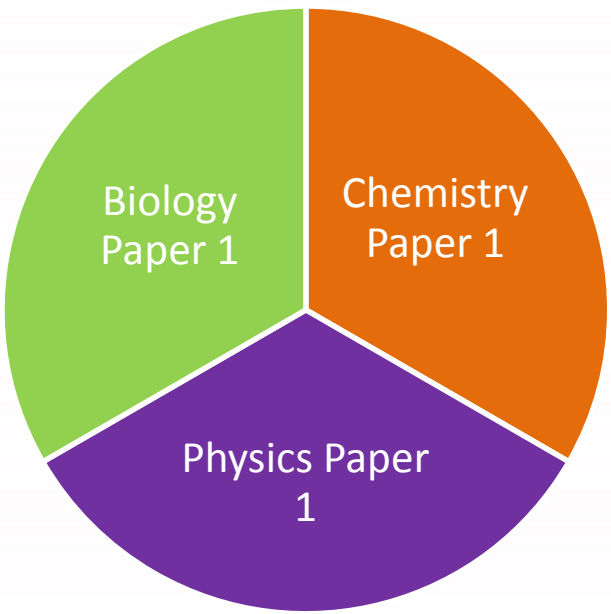
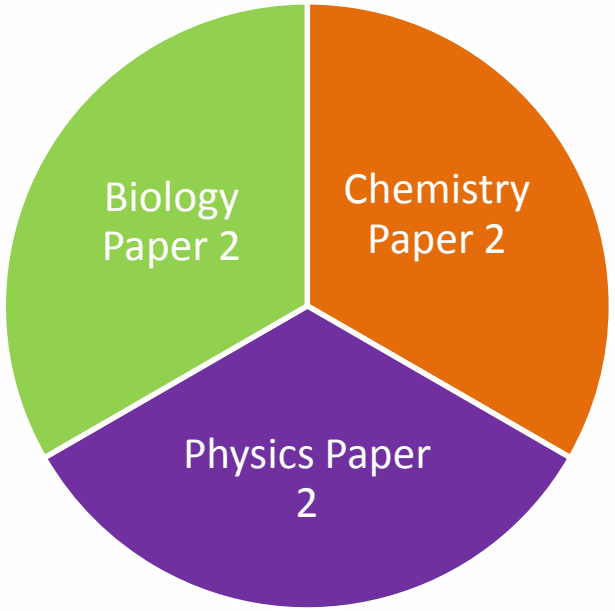
Combined: Trilogy





2x GCSE's over all three sciences. Each examination lasts 75 minutes.

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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.

GRADES AVAILABLE

Higher tier 4-9
Foundation tier 1-5

ROUTE & TIER OF ENTRY

Route and tier of entry decision can be found in the exam packs.
Any queries should be made to Mr. Steeden by 8th February.

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What is new?

- More demanding for everyone.
- The volume of subject content has increased for both routes.
- More challenging topics introduced from A-level.
- Questions based on skills developed from the required practical's taken by all students.
- No coursework.
- The total time for the examinations is increasing. Separates – from 9 hours to 10.5 hours. Combined – From 6 hours to 7.5 hours.
- Students will be required to recall equations for physics – fewer equations will be provided in examinations (all equations to recall are found in the back of workbooks).
- Greater demand on mathematical skills over all three sciences.

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

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

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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				
The human nervous system	Structure and function (The human nervous system for Trilogy)				
	The brain	■	■		
	The eye	■	■		
	Control of body temperature	■	■		
Hormonal coordination in humans	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	■		■	
Plant hormones	Control and coordination	■	■		
	Use of plant hormones	■	■	■	

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Science intervention timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
BEFORE SCHOOL **8:00 – 8:30am**		Mr Steeden – GCSE Biology/Physics B14	Miss Webber – GCSE Combined biology – B19		Mr Porter – GCSE Chemistry B4 Mrs Hilliage – GCSE Chemistry drop in session B17
TUTOR TIME **8.35-8.55am**					
LUNCHTIME **1:20 – 1:50pm**	Mrs Hilliage – GCSE Chemistry drop in session B17 Mr Hill – GCSE Physics drop in session B6 (from Feb ½ term)		Mr Cropper – GCSE Physics drop in session B13 (from Feb ½ term)	Mr Cropper – GCSE Physics drop in session B13 (from Feb ½ term) Mr Steeden – GCSE Biology drop in session B14 (from Feb ½ term)	Mr Harwood– Y11/13 Chemistry drop in session B17 Mr Hill – GCSE Physics drop in session B6 (from Feb ½ term)
AFTER SCHOOL **2:50 – 3:50pm**			Miss Webber – GCSE Combined biology B19	Mr Carty – GCSE Chemistry B8 Mrs Hilliage – Y12/13 Chemistry drop in session B17	

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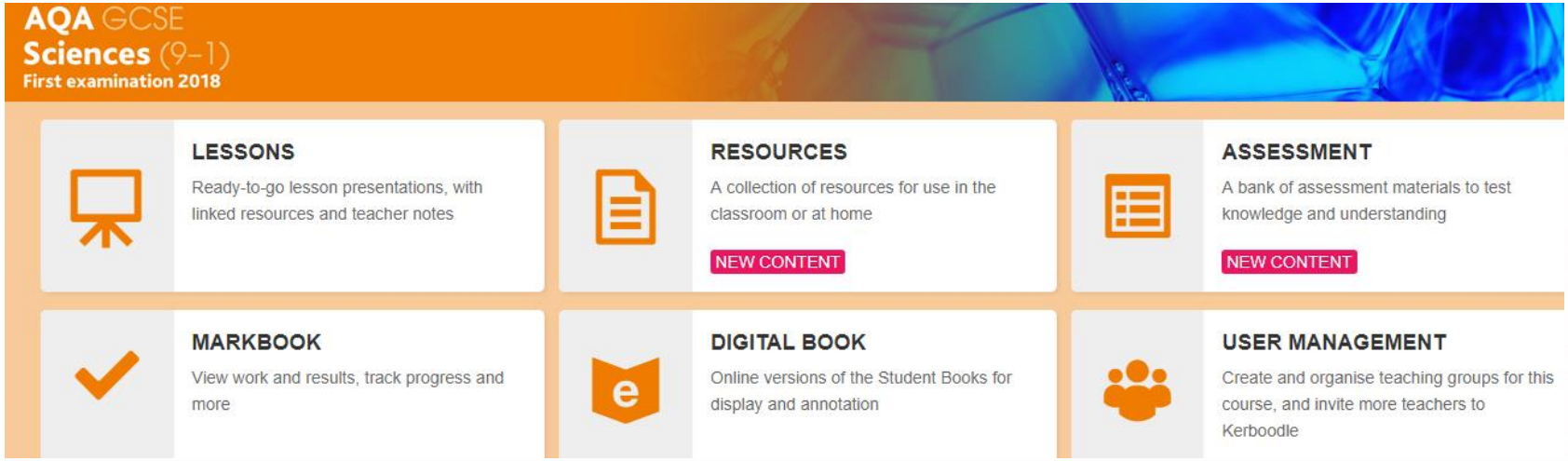
Students should be using kerboodle to help them revise independently. All details on how to log on are on SMH.

Username & password: first initial then surname (msteeden)

Institution code: pra1



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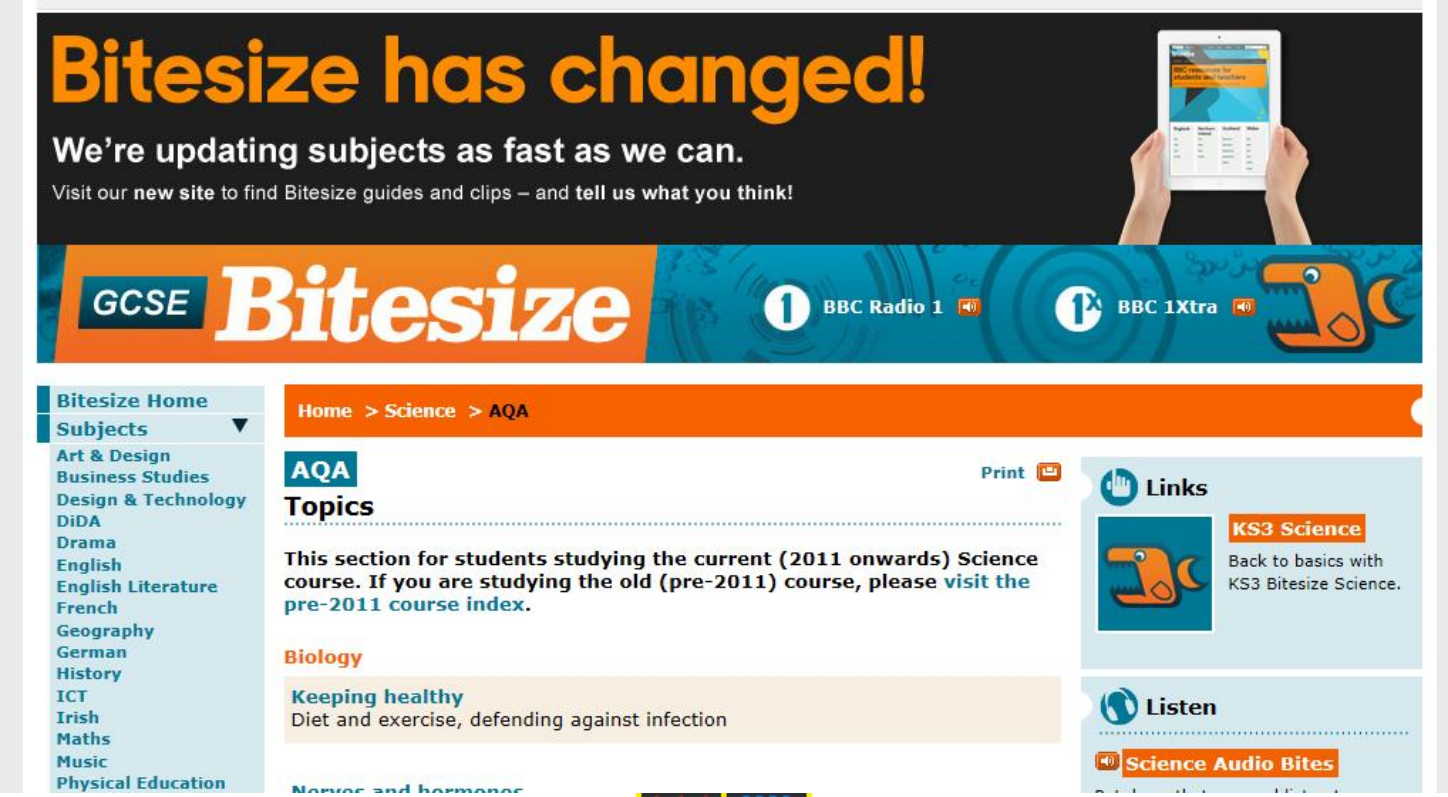
Make use of GCSE Bitesize



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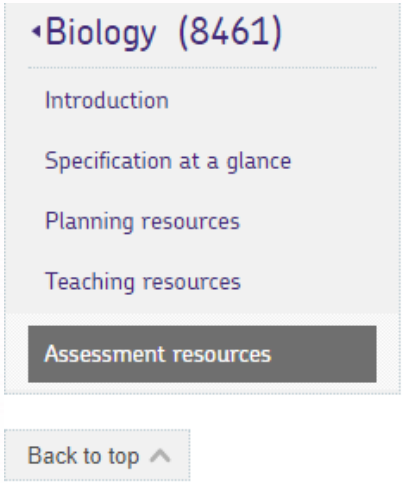

- Assessment guidance: End of Year 10 tests (webinar)
- Assessment guidance: Year 11 mocks (webinar)
- Exam guidance: Making questions clear (1.5 MB)
- Exam guidance: Our exams explained (1.9 MB)
- Exampro: Searchable past paper questions, marks and examiner comments
- Grade descriptors for single and combined science GCSEs (9-1) [GOV.UK]
- Key Stage 3 Science transition tests
- NEA and fieldwork: Centre declaration form 2018 (266.6 KB)
- NEA and fieldwork: Centre declaration form 2018 (72.4 KB)

Foundation

- Paper 1 (Foundation): Specimen mark scheme (180.6 KB)
- Paper 1 (Foundation): Specimen question paper (666.2 KB)
- Paper 2 (Foundation): Specimen mark scheme (219.3 KB)
- Paper 2 (Foundation): Specimen question paper (782.4 KB)

Higher

- Paper 1 (Higher): Specimen mark scheme (232.2 KB)
- Paper 1 (Higher): Specimen question paper (623.8 KB)
- Paper 2 (Higher): Specimen mark scheme (252.4 KB)
- Paper 2 (Higher): Specimen question paper (677.9 KB)

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

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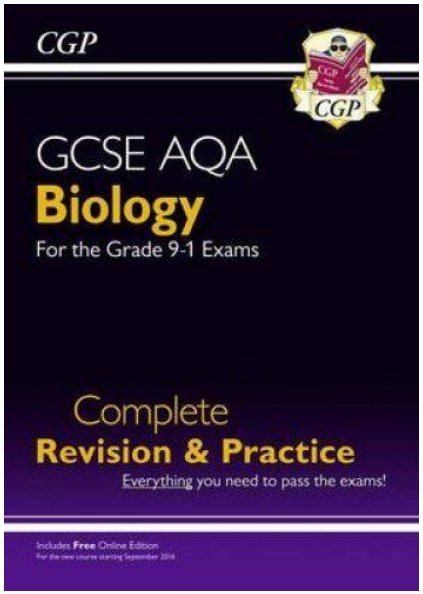
General Revision – Advice

1. Identify areas of concern
2. Revise that content
   a) Find the information
   b) Transform the information (Do something with it)
3. Test yourself

*Confidence level 1-10 with 10 being the most confident with your own subject knowledge of the topic

Biology	Confidence level before revision (1-10)*	Revised Once(✓)	Confidence level after revision (1-10)*	Revised for a second time(✓)	Confidence level after revision (1-10)*	Revised for a third time(✓)	Confidence level after revision (1-10)*	Revised for a fourth time (✓)	Confidence level after revision (1-10)*
B2.1 – CELLS AND SIMPLE TRANSPORT									
B2.2 – TISSUES, ORGANS AND ORGAN SYSTEMS									
B2.3 – PHOTOSYNTHESIS									
B2.4 – ORGANISMS AND THEIR ENVIRONMENT									
B2.5 – ENZYMES AND DIGESTION									
B2.6 – AEROBIC AND ANAEROBIC RESPIRATION									
B2.7 – CELL DIVISION AND INHERITANCE									
B2.8 – SPECIATION									



PiXL Knowledge: Diagnosis, Therapy & Testing

Name of the area that I am working on: _____

Name: _____

Class: _____

Task: _____

Diagnosis: 1 Thing I didn't understand (Name the questions you got wrong or the areas you struggled with)	Therapy: Where ar o learn about this? Which of the templates will I use to transform this information?	Test: 5 questions someone can ask me about my new understanding.

FillIT

PiXL

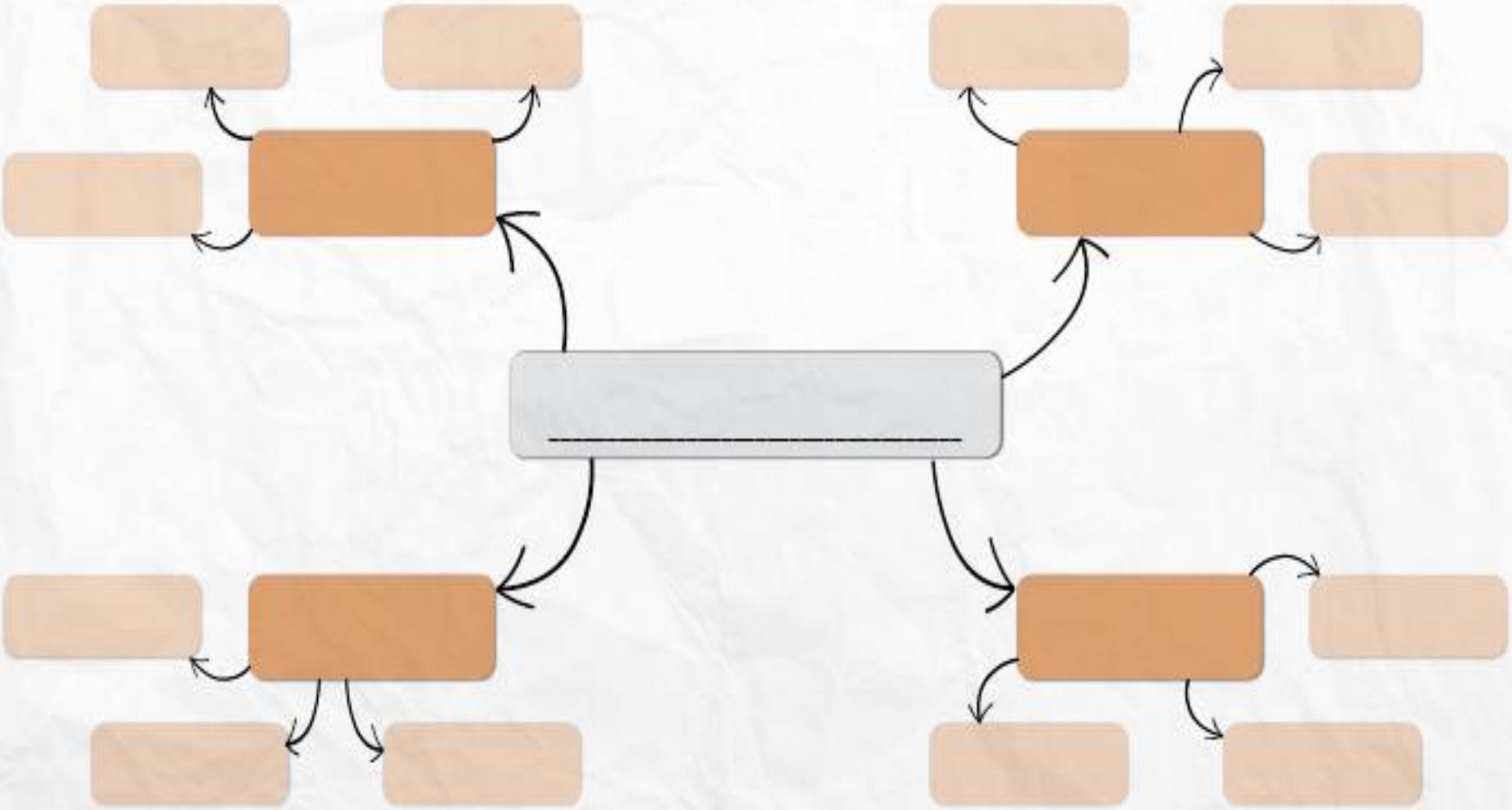
Fill up the boxes below with everything you know about the topic!

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LinkIT

PiXL

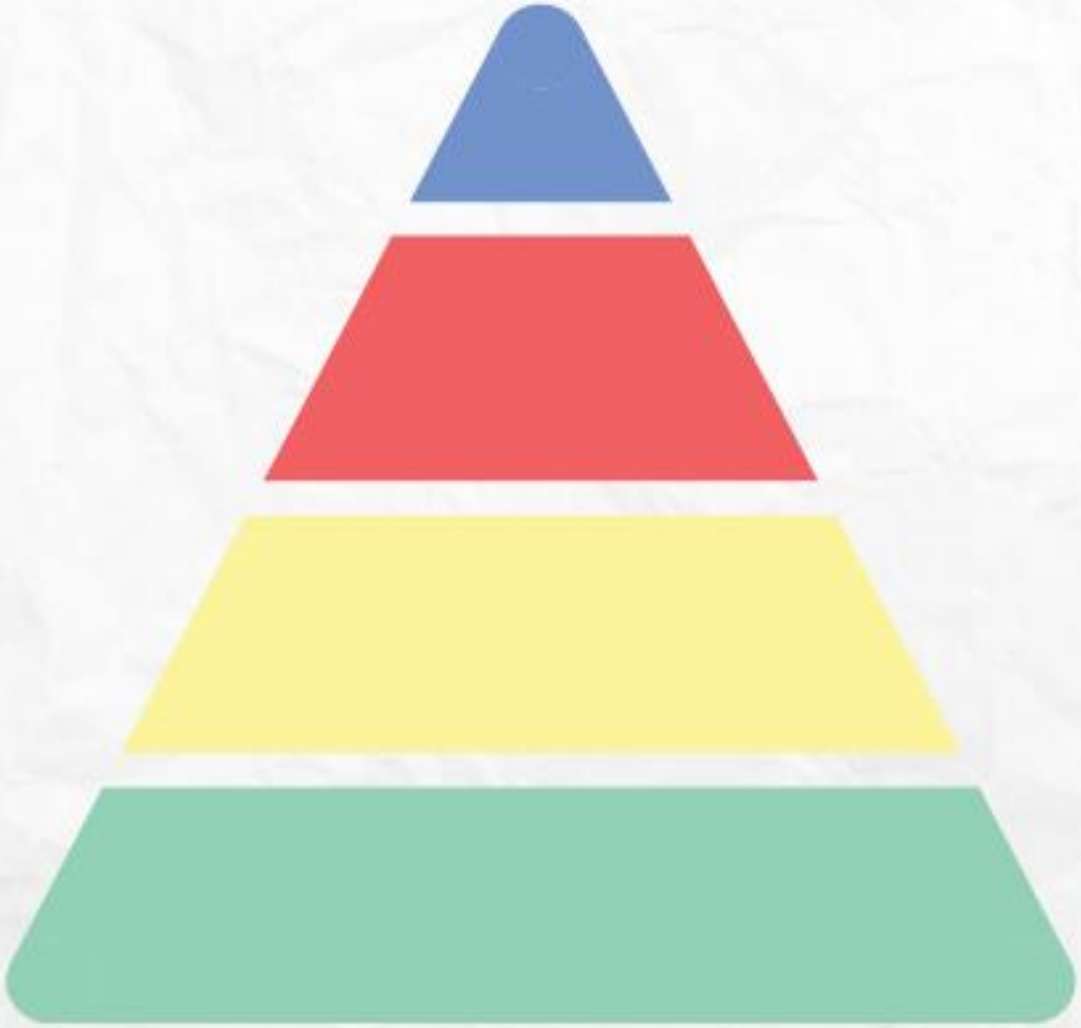
Write the topic in the centre, then fill up all the boxes with themes that link together. Can you think of more?
Can you find any links that aren't already shown?



RankIT

PiXL

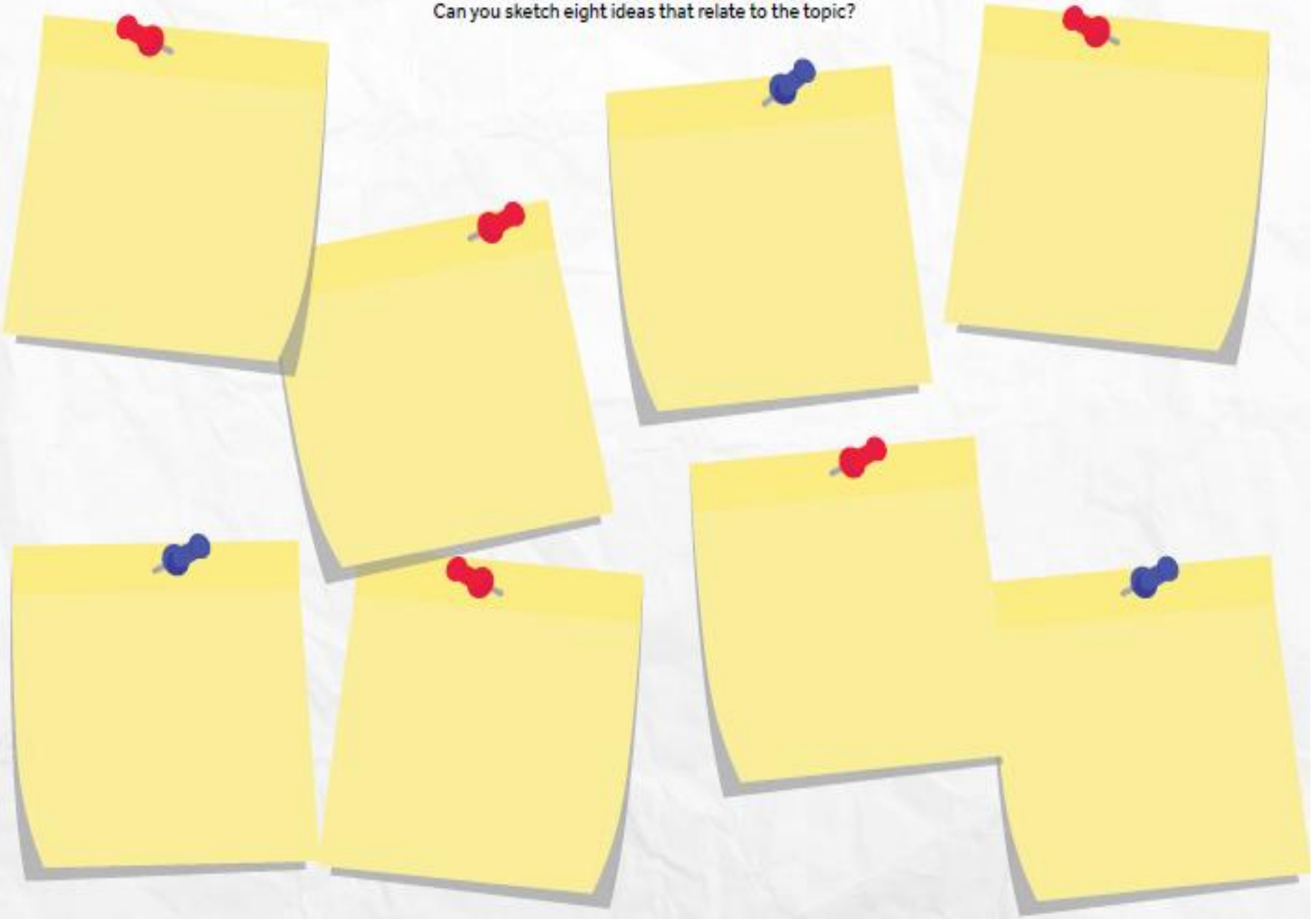
Can you rank the most important information you've learnt down to the least?
Make sure you can justify WHY you think it is the most/least important.



Reasoning:

SketchIT

Can you sketch eight ideas that relate to the topic?



PiXL Knowledge: Diagnosis, Therapy & Testing

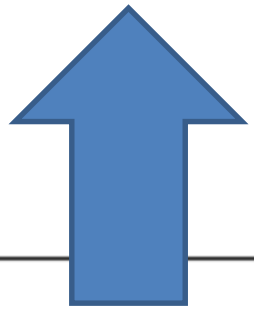
Name of the area that I am working on: _____

Name: _____

Class: _____

Task: _____

Diagnosis: 1 Thing I didn't understand (Name the questions you got wrong or the areas you struggled with)	**Therapy: Where am I going to learn about this?** **Which of the templates will I use to transform this information?**	**Test: 5 questions someone can ask me about my new understanding.**



FAIRFAX
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Other Resources to Support Revision

Revision Resources on the website

GCSEpod

PiXL Maths APP

Extra Provision Sessions

Revision Guides available on Parent Pay

FAIRFAX
SINCERITAS LABORIS

KEY DATES

w/c 12th February – Year 11 Drama Exam

26th February – Revision Skills Workshop

8th March – Friday 16th March – Year 11 Mock Exams II

17th and 18th April – GCSE Art Exam

8th and 9th May – BCU Maths Days

14th May – Summer GCSE Examination Series Begins

25th May – Year 11 Study Leave Begins at 1pm

28th June – Year 11 Prom (Aston Wood)