

P
R
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D
E

“Up The Ante”

Year 11 Information Evening

Barnwell School

M I D D L E & U P P E R

Achieving Excellence Together



Key Dates

- ▶ Exam Busters – Friday 22 March
- ▶ Easter Holidays 'Grab a Grade' classes - Monday 8 April to Friday 12 April
- ▶ First Core Exam - Science on Friday 10 May
- ▶ May Half Term 'Grab a Grade' classes - Monday 27 May to Friday 31 May
- ▶ Exam Board Contingency Day – Wednesday 26 June
- ▶ GCSE Results Day - Thursday 22 August 9am



How to Prepare

Mrs Collier



P
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D
E

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Prepare

to Perform

P
R
I
D
E

Create a calm environment

Remove distractions

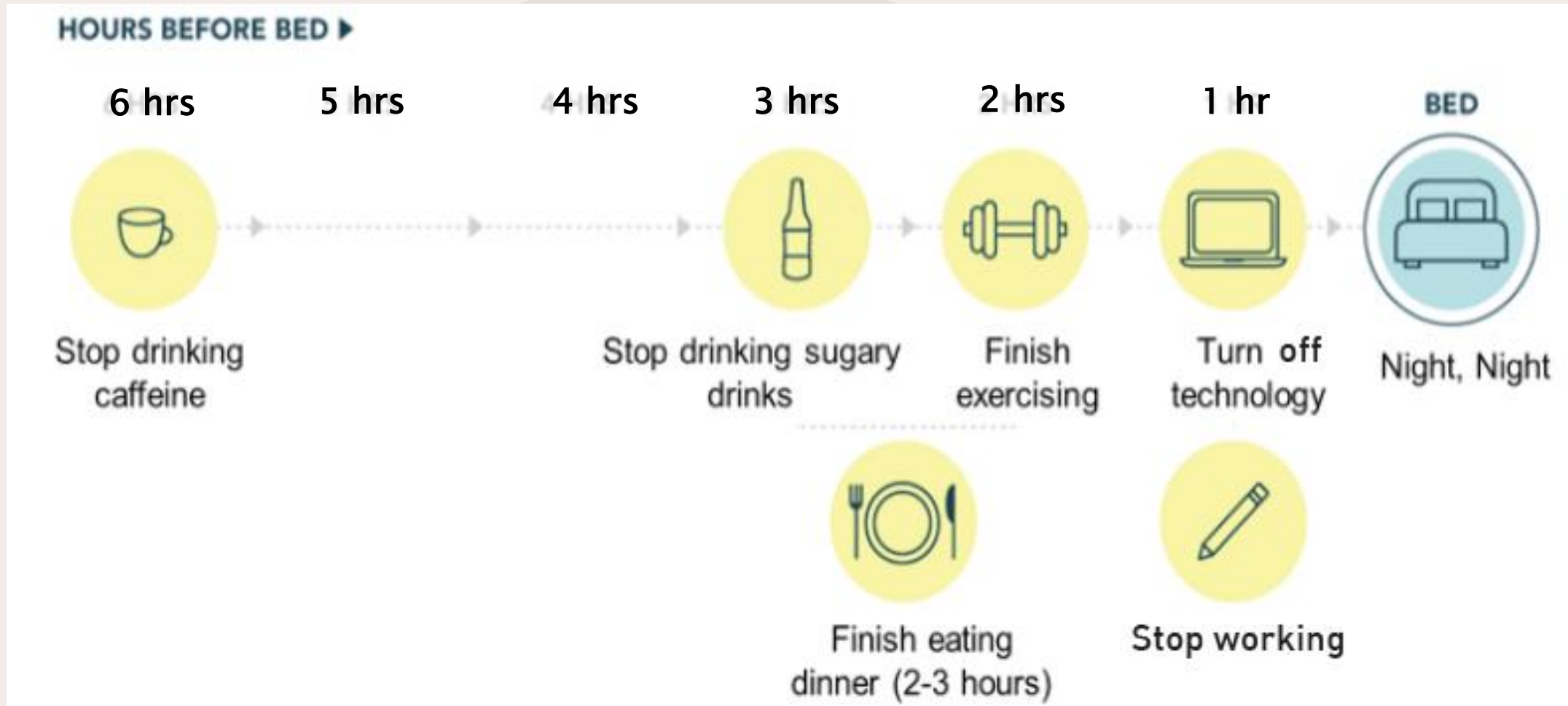
Plan revision times and stick to them

Plan in breaks, social time and sleep!

Look after yourself. Eat sensibly and get enough sleep

Get enough sleep!

P
R
I
D
E





Day of the Exam

- ✓ Prepare everything you need the night before
- ✓ Get plenty of rest
- ✓ Have good breakfast or lunch
- ✓ Arrive at the venue with time to spare

- You will need a transparent pencil case.
- Black pens are used in exams.
- You need a full maths set including a calculator.
- Remove labels from water bottles. They must be clear.
- All watches must be removed.
- All phones should be handed in or left outside the exam hall.

The exam does not wait for you, you have to be there and on time.

*“Keep your eye
on the prize
and try your
best...”*



P
R
I
D
E



Supporting your child with their revision

Mrs Francis

Barnwell School
M I D D L E & U P P E R

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Year 11 – GCSE Handbook

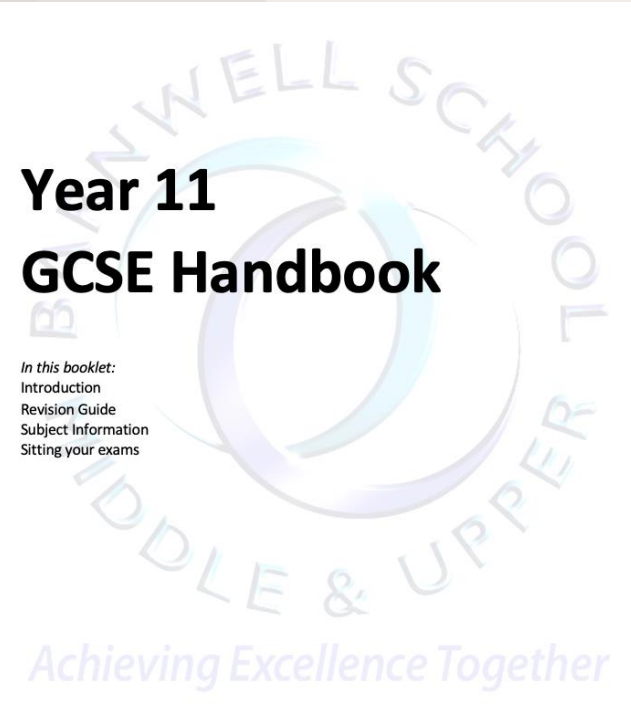
In this booklet:

Introduction

Revision Guidance

Subject Information

Sitting your exams



Year 11 – GCSE Handbook

- ▶ Read through the booklet with your child
- ▶ Discuss the different revision strategies within the booklet – are they using any of these already?
- ▶ Highlight GCSE subjects within the booklet. Is your child clear on expectations?

Two qualifications:

- GCSE English Language
- GCSE English Literature

Two exams for each

ENGLISH REVISION



MISS EVANS



LEARN LANGUAGE/STRUCTURE TECHNIQUES

- Make flashcards of techniques
- Practise identifying them in any fiction or non-fiction text
- Explain the effect - ‘This makes the reader _____’

Term		Term	
Definition		Definition	
Characteristics	Illustration	Characteristics	Illustration
Examples		Examples	
Term		Term	
Definition		Definition	
Characteristics	Illustration	Characteristics	Illustration
Examples		Examples	



LEARN PETAL OR WHW ACRONYM

- ◉ Point
 - ◉ Evidence
 - ◉ Technique
 - ◉ Analysis
 - ◉ Link to the question/historical context
-
- ◉ WHAT does the author intend to convey?
 - ◉ HOW do they do so?
 - ◉ WHY is this significant?

LEARN THE AFORESTMAP ACRONYM

- ◉ Alliteration
- ◉ Figurative Language/Facts
- ◉ Onomatopoeia/Opinions
- ◉ Rhetorical Question/Repetition
- ◉ Emotive Language
- ◉ Simile/Statistics
- ◉ Triplet
- ◉ Metaphor
- ◉ Anecdote
- ◉ Personification



PRACTISE PAST PAPERS IN TIMED CONDITIONS

- ◉ AQA website
- ◉ Links on English section of the school website
- ◉ Use scaffolding provided by your teacher



LITERATURE - FOUR TEXTS - CLOSED BOOK

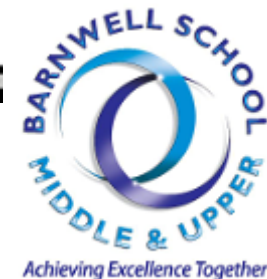
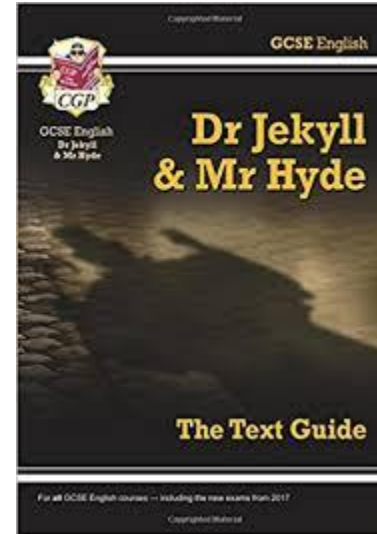
Paper 1

- ◉ Macbeth
- ◉ A Christmas Carol/Jekyll and Hyde

Paper 2

- ◉ An Inspector Calls
- ◉ Power and Conflict poetry
- ◉ Unseen Poetry

- ◉ CPG revision guides
- ◉ BBC Bitesize Literature section
- ◉ Mr. Bruff/Mr Salles YouTube videos



COMMON MISCONCEPTION

LITERATURE IS JUST REMEMERING THE QUOTES

You also need to revise:

- How the characters and themes are presented
- Where in the text the quotation comes from and how this affects meaning
- Key points of context and writers' purposes
- Techniques used and reader/audience response

EXAMPLE REVISION CARD

3/4 key quotes
with words missed
out + Technique

eg:

A _____

3/4 key quotes
with words missed
out + Technique

eg:

A _____

3/4 key quotes
with words missed
out + Technique

eg:

A _____

Name of theme/character

Summary of key
details – in visual
form or key
words

Word or image
to remind you of
the context

3/4 key quotes
with words missed
out + Technique

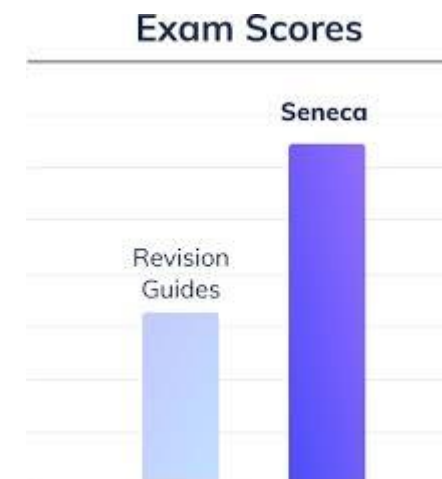
eg:

A _____

SENECA - LITTLE AND OFTEN!



- All students in Year 11 have been set up with a Seneca account and attached to the relevant revision courses.
- Students can access the website on their phones and on computers.
- Sessions take approximately 5 minutes to complete and are available for Literature and Language.
- <https://www.senecalearning.com/>



Maths Revision

Ms Bowles



How to revise maths

1. Start early using a “little and often” approach

A great tool to use is mathswatch –

<https://vle.mathswatch.co.uk/vle/>

Students have their own login for this and the website provides a 6 week revision timetable for students to use

Six Week Revision Schedule for the GCSE Higher Maths Exam

	Number	Algebra	Ratio & Proportion	Geometry & Measures	Probability & Stats	Total time of clips (OMM)	Grade	Completed?
Monday	32			48, 49, 50, 54, 55, 56		7 mins	2	
Tuesday	66, 67, 68, 69	93, 94, 95	105	112		9 mins	3	
Wednesday	70, 71, 72, 73, 74	96, 97	106			8 mins	3	
Thursday	75, 76, 77	98, 99	107	113		7 mins	3	
Friday	78, 79, 80	100, 101		114a/b, 115		8 mins	3	
Saturday								
Sunday								
Monday	81, 82, 83	102, 103, 104			125, 126	8 mins	3	
Tuesday	84, 85			116, 117, 118, 119	127a/b	8 mins	3	
Wednesday	86, 87, 88, 89		108, 109, 110, 111		128, 129	10 mins	3	
Thursday	90, 91, 92			120, 121, 122, 123, 124	130a/b	10 mins	3	
Friday	131, 132	133		145, 146a/b, 147		7 mins	4	
Saturday								
Sunday								
Monday		134a/b, 135(a or b)	142, 143	148		6 mins	4	
Tuesday		136, 137	144	149		4 mins	4	
Wednesday		138, 139, 140, 141			151	5 mins	4	
Thursday				150a/b	152, 153	4 mins	4	
Friday	154, 155, 156		164	165		5 mins	5	
Saturday								
Sunday								
Monday		157, 158, 159a/b		166, 167		6 mins	5	
Tuesday		160, 161, 162, 163		168		5 mins	5	
Wednesday				169, 170, 171	175	4 mins	5	
Thursday				172, 173, 174	176	4 mins	5	
Friday	177	178, 179, 180				4 mins	6	
Saturday								
Sunday								
Monday				181(a or b), 182	185, 186, 187	5 mins	6	
Tuesday				183, 184		2 mins	6	
Wednesday	188, 189	190, 191		200	204	6 mins	7	
Thursday		192, 193, 194		201, 202, 203		6 mins	7	
Friday		195, 196, 197, 198	199		205	6 mins	7	
Saturday								
Sunday								
Monday	206	208, 209				3 mins	8/9	
Tuesday	207a/b	210, 211				4 mins	8/9	
Wednesday		212, 213		217		3 mins	8/9	
Thursday		214, 215		218		3 mins	8/9	
Friday		216		219		2 mins	8/9	

Six Week Revision Schedule for the GCSE Foundation Maths Exam

	Number	Algebra	Ratio & Proportion	Geometry & Measures	Probability & Stats	Total time of clips (OMM)	Grade	Completed?
Monday	1, 2, 3, 4, 5, 6	7, 8				8 mins	1	
Tuesday				9, 10, 11, 12, 13	14, 15, 16	8 mins	1	
Wednesday	17, 18, 19, 20	33, 34, 35	38, 39			9 mins	2	
Thursday	21, 22, 23	36, 37	40, 41, 42			8 mins	2	
Friday	24, 25, 26			43, 44, 45, 46, 47	57, 58	10 mins	2	
Saturday								
Sunday								
Monday	27, 28, 29			48, 49, 50	59, 60	8 mins	2	
Tuesday	30, 31, 32			51, 52	61, 62, 63	8 mins	2	
Wednesday				53, 54, 55, 56	64, 65	6 mins	2	
Thursday	66, 67, 68, 69	93, 94, 95	105	112		9 mins	3	
Friday	70, 71, 72, 73, 74	96, 97	106			8 mins	3	
Saturday								
Sunday								
Monday	75, 76, 77	98, 99	107	113		7 mins	3	
Tuesday	78, 79, 80	100, 101		114a/b, 115		8 mins	3	
Wednesday	81, 82, 83	102, 103, 104			125, 126	8 mins	3	
Thursday	84, 85			116, 117, 118	127a/b	7 mins	3	
Friday	86, 87, 88, 89		108, 109, 110			7 mins	3	
Saturday								
Sunday								
Monday	90, 91, 92		111	119	128, 129	7 mins	3	
Tuesday				120, 121, 122, 123, 124	130a/b	7 mins	3	
Wednesday	131, 132	133		145, 146a/b, 147		7 mins	4	
Thursday		134a/b, 135(a or b)	142, 143	148		6 mins	4	
Friday		136, 137	144	149		4 mins	4	
Saturday								
Sunday								
Monday		138, 139, 140, 141			151	5 mins	4	
Tuesday				150a/b	152, 153	4 mins	4	
Wednesday	154		164			2 mins	5	
Thursday	155	157, 158				3 mins	5	
Friday	156	159a/b		165		4 mins	5	
Saturday								
Sunday								
Monday		160, 161		166		3 mins	5	
Tuesday		162		167		2 mins	5	
Wednesday		163		168		2 mins	5	
Thursday				169, 170, 171	175	4 mins	5	
Friday				172, 173, 174	176	4 mins	5	

Once logged in:

Click on videos

Select GCSE and Tier

Type in the clip number or
a skill you want to revise

The screenshot shows a user interface for selecting educational videos. At the top, there is a navigation bar with links for 'Classes', 'Assignments', 'Users', 'Videos' (highlighted), 'Usage', 'Feedback', 'Extras', and 'Help'. On the right side of the navigation bar, there is a user profile for 'S's account' with a 'Logout' button and a note '249 days until renewal'. Below the navigation bar is a search section titled 'Find a Clip'. This section contains four filter dropdown menus: 'Qualification' (set to 'GCSE'), 'Tier' (set to 'Foundation'), 'Grade' (set to 'All'), and 'Topic' (set to 'All'). There is also a 'Search' input field. Below the filters is a section titled 'Choose Clip (195)' which contains a table of video clips. The table has two columns: 'Clip' and 'Title'. The clips listed are numbered 27 through 41.

Clip	Title
27	Half-Way Values
28	Factors, Multiples and Primes
29	Introduction to Powers/Indices
30	Multiplying and Dividing by Powers of 10
31	Rounding to the Nearest 10, 100, 1000
32	Rounding to Decimal places
33	Simplifying - Addition and Subtraction
34	Simplifying - Multiplication
35	Simplifying - Division
36	Function Machines
37	Generating a Sequence - Term to Term
38	Introduction to Ratio
39	Using Ratio for Recipe Questions
40	Introduction to Percentages
41	Value for Money

You can choose to watch the whole video if you are really unsure or select the One Minute Video

or the Interactive Questions or the Worksheet

The screenshot shows a video player interface. At the top left, it says "Clip 123 Angle Sum of Polygons". In the center, the text "Clip 123" is underlined, and "ANGLE SUM OF POLYGONS" is written in large yellow letters. At the bottom left, there is a play button and a timer showing "07:12". At the bottom right, there are icons for volume, closed captions, settings, and a refresh button.

Navigation options are located at the top right: "One Minute Maths", "Interactive Questions" (highlighted in yellow), and "Worksheet".

On the right side, there is a "Find a Clip" panel with the following filters:

- Qualification: GCSE
- Tier: Foundation
- Grade: All
- Topic: All
- Search: 123

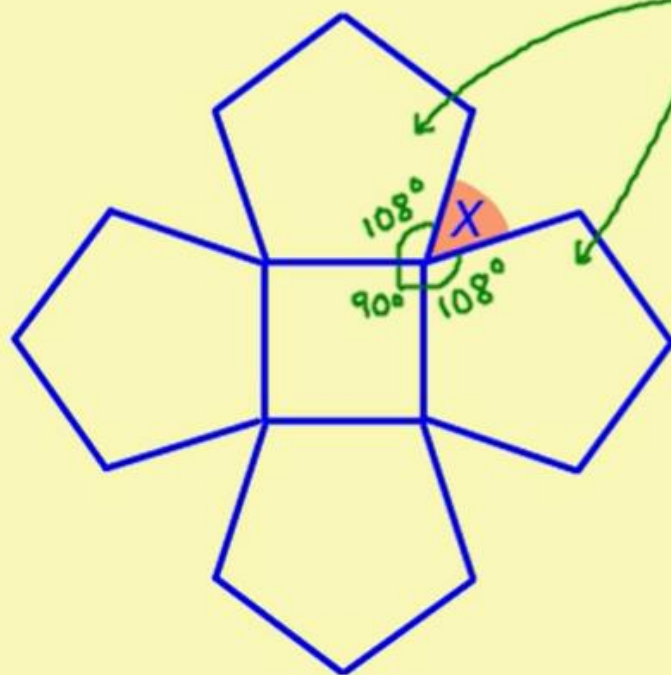
Below the filters is a "Choose Clip (1)" section with a table:

Clip	Title
123	Angle Sum of Polygons

Press play

The full video stops frequently for students to try out the skill before going on to explain the answer

The diagram shows a square and 4 regular pentagons.
Work out the size of the angle marked x .



pentagon \rightarrow 5 sides \rightarrow 3 triangles

$$3 \times 180 = 540$$

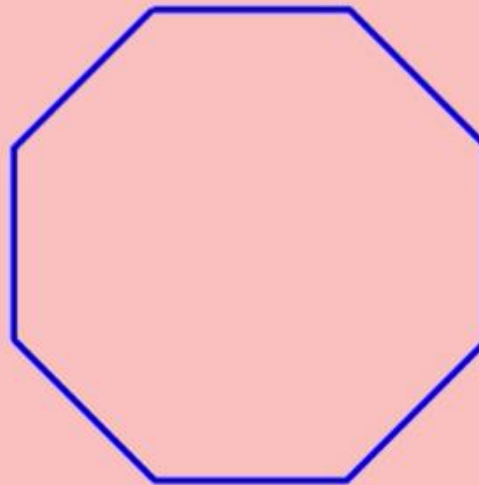
$$540 \div 5 = 108$$

$$360 - 108 - 108 - 90 = 54^\circ$$

The diagram shows a regular octagon.

Find:

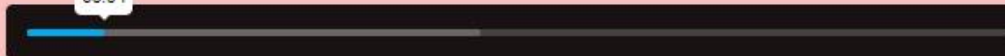
- the sum of the interior angles.
- the size of one interior angle.
- the size of one exterior angle.



The one minute video quickly recaps the skill, it still stops for students to have a go at a question but it only provides the answers



00:04



The interactive questions let you know if you are correct or incorrect so that you can try again

MathsWatch

Classes Assignments Users Videos Usage Feedback

Well Done!
you have answered correctly

Clip 123 Angle Sum of Polygons - Question 2

Standard Questions 1 2 3 4 5 6 7 Harder Questions 1 2 3 4 5 6 7

Question Progress 2 / 2 Marks

Work out the sum of the interior angles of a decagon.

1440

Calculator icon with red X, Trophy icon with 95%

Submit Answer

MathsWatch

Classes Assignments Users Videos Usage Feedback

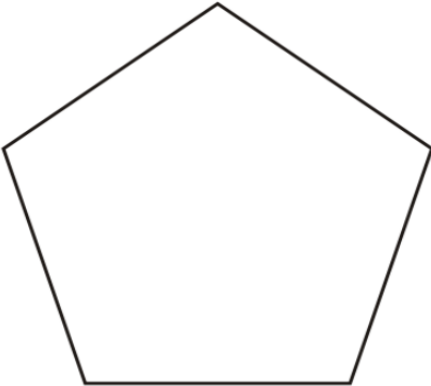
Whoops!
You have some incorrect answers

Clip 123 Angle Sum of Polygons - Question 3

Standard Questions 1 2 3 4 5 6 7 Harder Questions 1 2 3 4 5 6 7

Question Progress

The diagram shows a regular pentagon.
Work out the size of **one** interior angle.



540

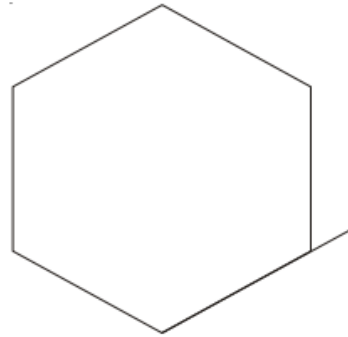
Calculator icon with green checkmark, Trophy icon with 96%

Submit Answer

The worksheet is usually two pages long and contains non calculator and calculator questions

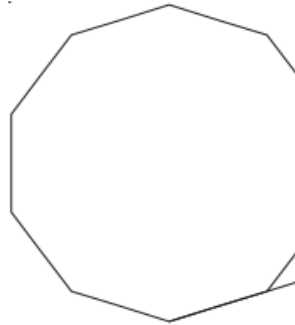
Angle Sum of Polygons

1)



- a) Work out the size of an **exterior** angle of a regular hexagon.
- b) Work out the size of an **interior** angle of a regular hexagon.

2)



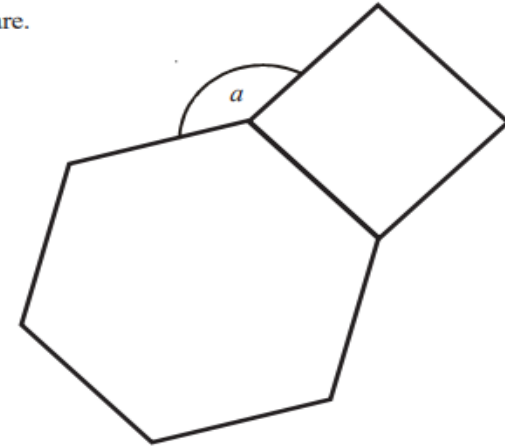
- a) Name the regular polygon, above.
- b) Work out the size of an **exterior** angle and of an **interior** angle.

- 3) The size of each **exterior** angle of a regular polygon is 45° .
Work out the number of sides of the regular polygon.

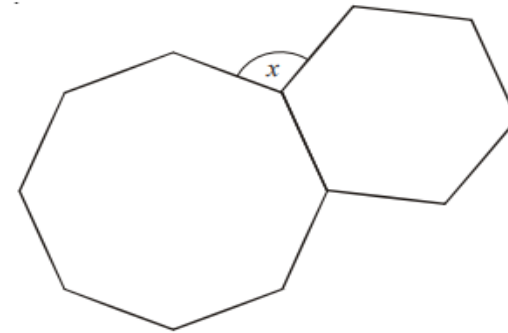
Angle Sum of Polygons



- 1) The diagram shows a regular hexagon and a square.
Calculate the size of the angle a .



2)



The diagram shows a regular octagon and a regular hexagon.
Work out the size of angle x .



- 3) $ABCDE$ and $PQRSE$ are regular pentagons.
 AES is an equilateral triangle.
Work out the size of angle DEP .

2. Establish what topics are your strengths and those that need attention by using your mock exam analysis spreadsheet, going through your homework or zig zag papers.

Read the notes in your exercise books – even those from several years ago

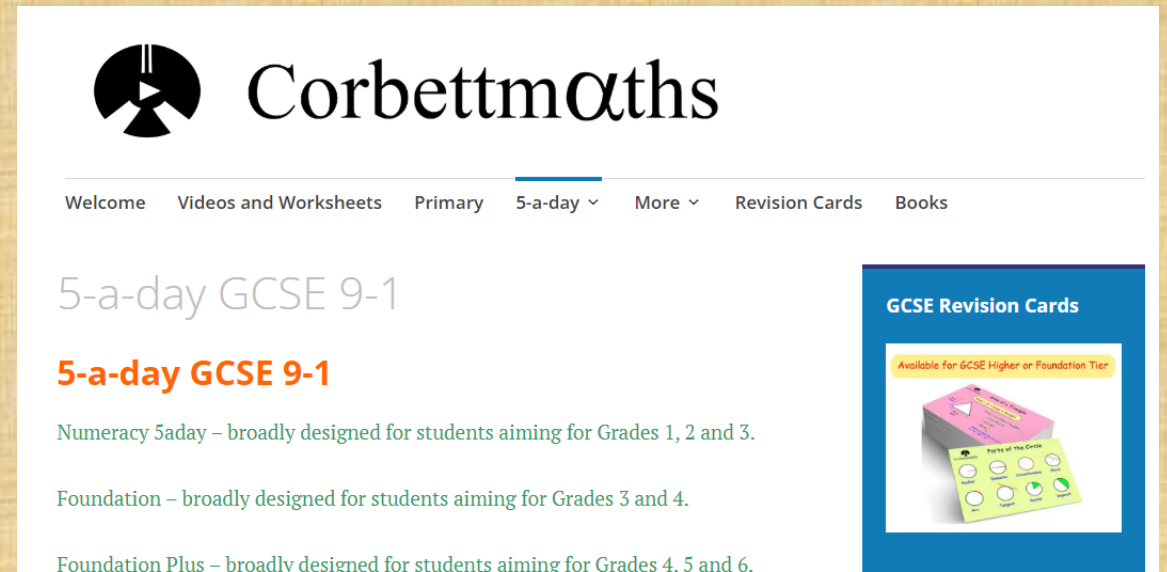
Use the mathswatch website

And others websites, such as Corbett maths – who offer worksheets, exam questions, videos and five a day mixed topic worksheets

Attend the period 7 sessions and ask you teacher if they could focus in on some of the topics you are unsure of



The screenshot shows the Corbettmaths website homepage. At the top left is the logo, a stylized 'C' with a play button icon, followed by the text 'Corbettmaths'. Below the logo is a navigation menu with links: 'Welcome', 'Videos and Worksheets', 'Primary', '5-a-day', 'More', 'Revision Cards', and 'Books'. The 'Videos and Worksheets' link is highlighted. Below the navigation menu, the text 'Videos and Worksheets' is displayed in a large, bold, orange font. Underneath this, there is a purple link that says 'Click here for answers'. At the bottom left, there is a link for '2D shapes: names' followed by 'Video 1', 'Practice Questions', and 'Textbook Exercise'. On the right side of the page, there is a blue box titled 'GCSE Revision Cards' with a yellow banner that says 'Available for GCSE Higher or Foundation Tier'. Inside the box is an image of a stack of colorful revision cards.




The screenshot shows the Corbettmaths website page for '5-a-day GCSE 9-1'. At the top left is the logo, a stylized 'C' with a play button icon, followed by the text 'Corbettmaths'. Below the logo is a navigation menu with links: 'Welcome', 'Videos and Worksheets', 'Primary', '5-a-day', 'More', 'Revision Cards', and 'Books'. The '5-a-day' link is highlighted. Below the navigation menu, the text '5-a-day GCSE 9-1' is displayed in a large, bold, orange font. Underneath this, there is a link that says '5-a-day GCSE 9-1'. Below this link, there are three paragraphs of text: 'Numeracy 5aday – broadly designed for students aiming for Grades 1, 2 and 3.', 'Foundation – broadly designed for students aiming for Grades 3 and 4.', and 'Foundation Plus – broadly designed for students aiming for Grades 4, 5 and 6.'. On the right side of the page, there is a blue box titled 'GCSE Revision Cards' with a yellow banner that says 'Available for GCSE Higher or Foundation Tier'. Inside the box is an image of a stack of colorful revision cards.

3) Past papers, past papers, past papers!

Although every year there will be a tricky question or two, the vast majority of a GCSE maths questions are fairly predictable.

By completing lots of past papers and zig zag papers, you will be fully prepared for the majority of the questions.

It will also help you identify what topics are your “weaknesses” and will let you know which videos and practice questions you will need to work on next.



Please write clearly in block capitals.


Centre number Candidate number

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.



Please write clearly in block capitals

Centre number

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

GCSE MATHEMATICS

Foundation Tier Paper 1 Non-Calculator

GCSE MATHEMATICS

Higher Tier Paper

Time allowed: 1 hour 30 minutes

AQA Practice GCSE Examination
Foundation Set 10 Paper 1 Non-Calculator

Instructions to candidates:
Write all answers in the spaces provided.

- Which of these is equivalent to $\frac{1}{3}$?
Circle your answer.

$\frac{1}{3}$	$\frac{3}{10}$
---------------	----------------
- What is 922 rounded to the nearest 100?
Circle your answer.

900	920
-----	-----

AQA Practice GCSE Examination Paper Higher Set 2 Paper 2 Calculator	Time: 1 hour 30 minutes	Set 2 of 10
Standard equipment: pen, pencil, ruler, protractor, compasses, calculator. You may use a calculator.		
Instructions to candidates: You must show all of your working. Write all answers in the spaces provided.		

- The ratio of the volumes of sphere A : sphere B is 27 : 64.
Circle the ratio of their radii.

9 : 16	5 : 8	3 : 4	27 : 64
--------	-------	-------	---------

Total 1 Mark
- Here is a linear sequence.

1	8	15	22
---	---	----	----

Circle the expression for the n^{th} term of this sequence.

$8n - 7$	$7n - 6$	$n + 7$	$7n$
----------	----------	---------	------

Total 1 Mark

4) Attend the Easter 'Grab a Grade' sessions that are provided by your class teacher.

These sessions will be built around the needs of your class and your teacher will know exactly where your weaknesses are and will focus in on improving these areas.

Revision

Fractions

1) In a pack 15 oranges, 3 of the oranges are mouldy. What fraction of the pack are mouldy?

2) Find the fraction half way between $\frac{1}{5}$ and $\frac{1}{10}$.

Explain how you know the answer is wrong without working out the correct answer. $\frac{3}{5} - \frac{2}{3} = \frac{1}{2}$

12 x 30 = 4 x x x x

1) Write down a prime number between 20 and 30.

2) Write down an even multiple of 13.

3) Write down three different factors of 24 that add together to give a prime number.

Number Properties

Make the statement true.

Two numbers, A and B, are shown on a scale. The difference between A and B is

A 0 B

Two numbers, A and B, are shown on a scale. The difference between A and B is 56. Work out the value of A and B.

- Amjad, Henry and Adil share a flat.
- Amjad pays 20% of the rent.
- Henry pays 35% of the rent.
- Adil pays £540.

How much do they pay altogether for the rent?

Percentages

The diagram shows two swimming pools. A kids pool and an adults pool. The kids pool is full. The adult pool is only 25% full. The wall connecting the two pools is released into the adults pool before the wall is raised again. What percentage of the adults pool is now filled?

Percentages

In the shop the normal price of a coat is £85. The shop has a sale. The price of the coat is reduced by 12%. Work out the price of the coat in the sale.

Percentages

Complete the table.

Minutes	Hours
15	$\frac{1}{4}$
20	$1\frac{1}{2}$
100	

Harley has done some calculations. Explain how you know the answer is incorrect without working out the answer. $0.2 \times 0.4 = 0.8$

1) Write the following in ascending order of size.

0.23, $\frac{1}{5}$, 22.3%, 0.203, $\frac{3}{16}$

In June, Madeline pays the same amount for each of her 10 downloads. She pays 60p more for each song. She has a £25 gift card. What is the maximum number of songs she can purchase using that card?

Decimals

2) Write down a number between 2.34 and 2.35.

Decimals

Revision

The function g is such that $g(x) = 5x - 4$

a) Find $g^{-1}(x)$

The function h is such that $h(x) = kx^2$ where k is a constant. Given that $g(3) = 85$

b) Work out the value of k

The functions $f(x)$ and $g(x)$ are given by the following:

$f(x) = 2x + a$
 $g(x) = ax + 7$
 $f(g(x)) = 8x + b$

Work out the values of a and b .

The functions $f(x)$ and $g(x)$ are given by the following:

$f(x) = 5x - 2$
 $g(x) = x^2 + 3x$

a) Find the value of $f(-3)$

b) Find the value of $g(4)$

c) Find the value of $f\left(\frac{1}{2}\right)$

The diagram shows a sketch of the graph $y = f(x)$. The graph passes through the points $(-3, 0)$ and $(5, 0)$.

Sketch the graph of $f(x + 2)$

The functions $h(x)$ and $g(x)$ are given by the following:

$h(x) = x^2 + 5$
 $g(x) = 2x - 7$

a) Find the value of x when $g(x) = 23$

b) Find the solutions for x when $h(x) = 9$

The functions $f(x)$ and $g(x)$ are given by the following:

$f(x) = 4x$
 $g(x) = 5 + 3x$

a) Calculate the value of $fg(2)$

b) Calculate the value of $gf(-5)$

The functions $h(x)$ and $g(x)$ are given by the following:

$h(x) = x^2 + 2$
 $g(x) = 2x - 3$

a) Calculate the value of $gh(3)$

b) Calculate the value of $hg\left(\frac{1}{2}\right)$

For all values of x , $f(x) = x^2 + 3$ and $g(x) = x - 1$

a) Show that $fg(x) = x^2 - 2x + 4$

b) Solve $fg(x) = g(f(x))$

For all values of x , $f(x) = 4x + 3$

a) Find the expression for $f^{-1}(x)$

b) Calculate the expression $f^{-1}(-5)$

The functions $h(x)$ and $g(x)$ are given by the following:

$h(x) = 5x$
 $g(x) = 4x + 1$

a) Find $hg(x)$

b) Find $gh(x)$

c) Find the value of x when $hg(x) = 60$

4) Attend the superlearning sessions that are provided before each exam paper

We make use of exam paper prediction resources so after paper 1 we will be provided with a predicted paper 2 and, after paper 2 we will receive a predicted paper 3.

These are amazingly accurate each year so it is vital you attend the sessions so that you can work on the skills that could very well be on the paper the next day.

Paper 3 Foundation Practice Questions. Monday 13th June 2022

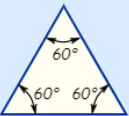
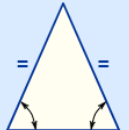

Summer 2022 Advanced Information	
Centre Number	Candidate Number
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Monday 13th June 2022 Practice Questions	
Morning (Time: 1 hour 30 minutes)	
Mathematics Paper 3 (Calculator) Foundation Tier	Practice questions for the summer exams based on the advanced information
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.	Total Marks

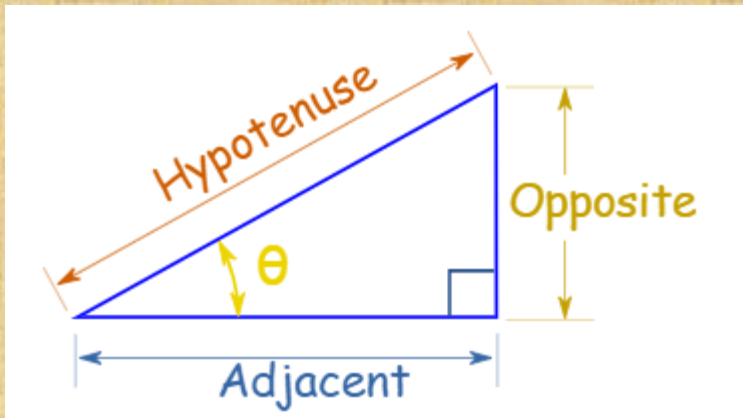
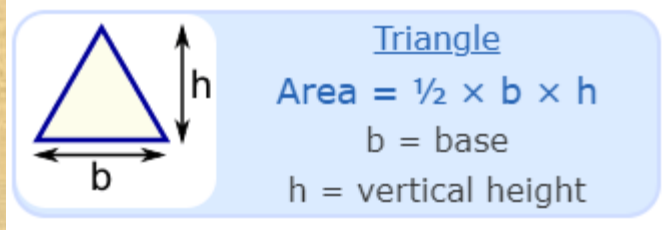
5) Mix it up!

Variety – Mix up your revision, adding in different activities. It's important that you don't get bored of revision, however don't spend too long making posters.

Create a cheat sheet or revision cards. You have many maths tools that you can use so list everything that you can about a topic e.g. triangles could include angles, area, trigonometry, Pythagoras, symmetry, transformations, bearings



	Equilateral Triangle Three equal sides Three equal angles, always 60°
	Isosceles Triangle Two equal sides Two equal angles
	Scalene Triangle No equal sides No equal angles



Rotation

A diagram showing an orange triangle being rotated 90 degrees clockwise around a point, indicated by a curved arrow.

Reflection

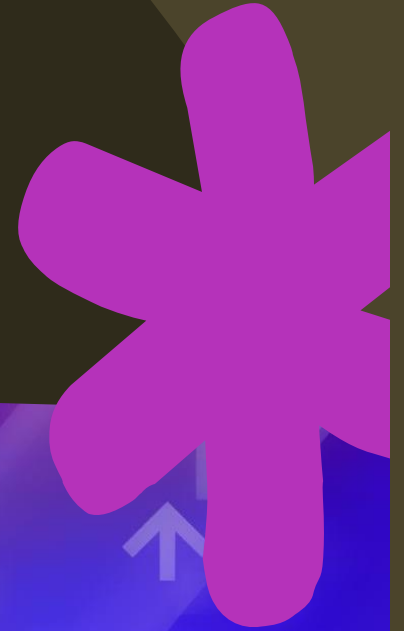
A diagram showing an orange triangle and its reflection across a vertical line of symmetry.

Translation

A diagram showing a blue triangle and its translation to a new position, indicated by arrows showing the direction and distance of the move.

PREPARING FOR YOU SCIENCE GCSE

The best tools and approaches to have maximum impact on progress



UP THE ANTE



TOP TIPS

1. Little and often – **15 minutes bursts**
2. Start with what you do know
3. Check against what you need to know
4. Revise what you **don't yet know**
5. Lots of recall practice of what you don't yet know
6. Know what is in each exam
7. Find the tools that work for you
8. Practice skills

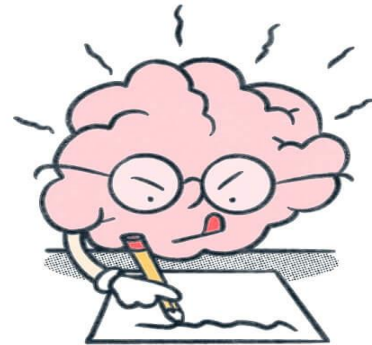
Exam paper practice as a starting point for your revision



- Download and print the right paper at school
- Get your equipment ready
- Remove any distractions
- Set a timer for 1h45
- Complete the paper to the best of your ability
- Afterwards mark your paper
- Make a list of topics and content you were not able to answer the questions on
- Use this list to guide your revision

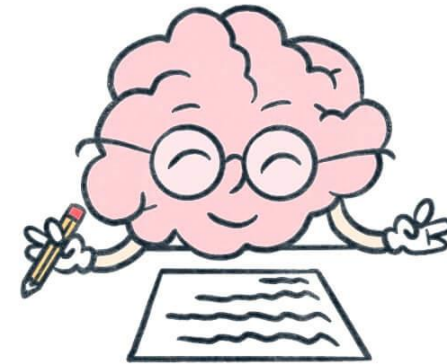
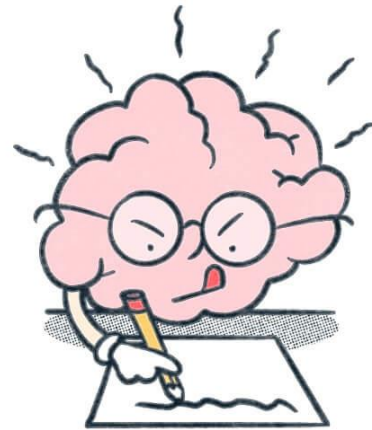
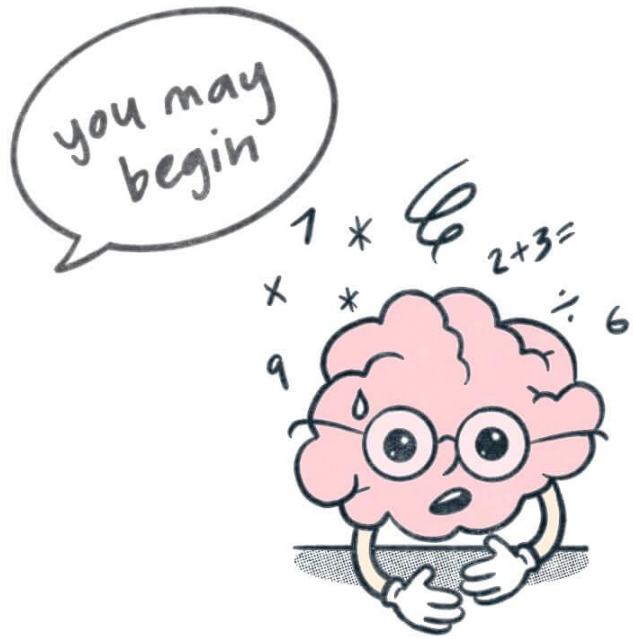
Brain dump - everything I know about....

- Decide on a topic - use BBC bitesize, Save my exams, PMT etc to help you choose something
- Get a blank sheet of paper and a pen
- Remove any distractions
- Set a 10 minute timer
- For the whole 10 minutes write and draw everything you can recall about the topic



Brain dump - check against what you need to know

- Go to a revision resource for your chosen topic
- Mark your brain dump and make corrections
- Make a list of anything that is in the revision resource that you didn't write down or draw
- Use a revision app to revise the things you didn't know



Useful revision resources - links on Microsoft Teams

The screenshot shows the BBC Bitesize website. At the top, there are navigation links for Home, News, Sport, Weather, iPlayer, Sounds, and Bitesize. The main header features the 'BITESIZE' logo and a 'Change language' button. Below this is a secondary navigation bar with links for Home, Learn, Support, Careers, My Bitesize, and All Bitesize. The main content area is titled 'GCSE AQA Synergy' and 'Combined Science', with a sub-note 'Part of Combined Science'. An illustration of a flower, a test tube, and a beaker is visible on the right side of the page.

The image shows the Revisely logo, which consists of a blue graduation cap icon followed by the word 'Revisely'. Below the logo, the text 'GCSE AQA Combined Science Revision' is displayed in a dark blue font.

This is a screenshot of a YouTube video player. The video title is 'The Three States of Matter' for '2023 Exams', categorized as 'GCSE Chemistry'. The presenter is 'Josh Griffiths'. The video statistics show '25 videos', '1,963 views', and it was 'Last updated on May 13, 2019'. The player interface includes a 'Play all' button and a 'Shuffle' button.

The screenshot shows the Plutonium Science website. The header includes the site name 'Plutonium Science' and the tagline 'Promoting School Science education by providing FREE help, advice and resources'. A navigation menu contains links for Home, Resources, Past Papers, Revision Videos, and Revision Toolkit. The main heading is 'AQA GCSE Combined Science Synergy Papers'. Below this, there is a call to action 'Complete a past exam paper' accompanied by an illustration of a test paper with a '100%' score and a pencil.

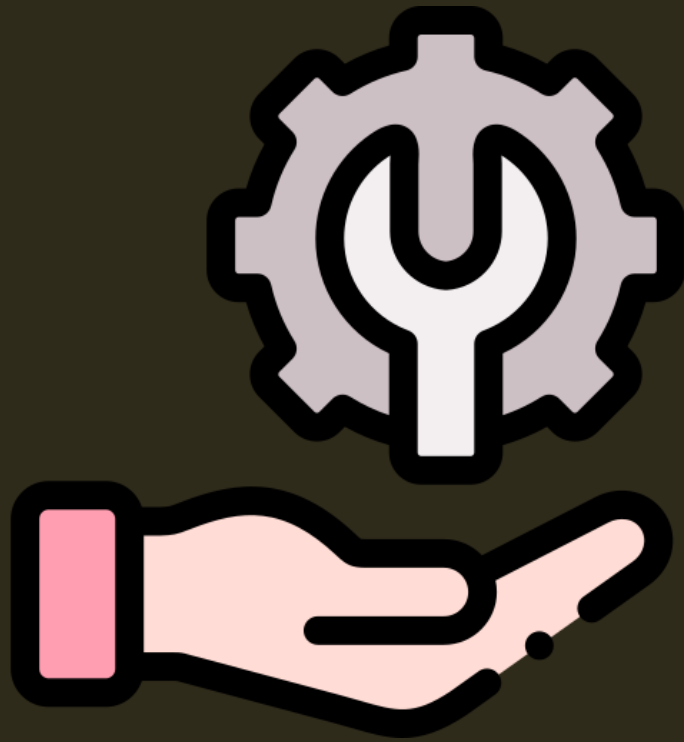
The screenshot shows the StudySmarter website. The header features the StudySmarter logo. The page is titled 'Combined Science / Synergy'. The main heading is 'Synergy' in a large, bold font, with 'SYNERGY' in all caps below it. A dropdown menu is open, showing a list of revision topics: 'Synergy', 'Air Pollutants', 'Amylase', and 'Building Blocks of Science'.

Useful revision resources - files on Microsoft Teams

The screenshot shows a Microsoft Teams interface with a file browser open in the 'General' channel. The browser displays a list of documents with columns for Name, Modified, and Modified By. The documents listed are:

Name	Modified	Modified By
GCSE Textbooks	October 21, 2022	Carl Daly
Paper 1 and 2 - Life and Environmental Sci...	October 19, 2022	Kathryn Cornwell
Paper 3 and 4 - Physical Sciences	October 19, 2022	Kathryn Cornwell
E229 CLEAPPS illustrations of common lab ...	October 19, 2022	Kathryn Cornwell
Nov 22 Mock Revision Topics.pptx	November 3, 2022	Eloise Buckle - 2018
periodic table.PDF	October 19, 2022	Kathryn Cornwell
Science key vocabulary.PDF	October 19, 2022	Kathryn Cornwell
Synergy equation sheet.PDF	October 19, 2022	Kathryn Cornwell
Synergy Specification.PDF	October 19, 2022	Kathryn Cornwell
Trilogy topics by Synergy Paper.pdf	February 22	Carl Daly
Useful websites.docx	October 19, 2022	Kathryn Cornwell

Support from Science



- **A full range of files and links to online resources on Microsoft teams areas**
- **P7 sessions and Easter booster sessions**
- **Exam wrapper mock analysis to tell you exactly what you need to work on**
- **Structured weekly exam practice HW**
- **Walk through talk through mocks after Easter**
- **Super learning sessions before each exam**

Exams -

Course	Number of Papers	% Each paper is worth	Number of marks for each paper	Length of each paper
Combined Science - Synergy	4	25%	100	1hr 45 mins
Biology	2	50%	100	1hr 45 mins
Chemistry	2	50%	100	1hr 45 mins
Physics	2	50%	100	1hr 45 mins

Exams - Combined Science

Paper	Content	Questions
1 10th May	Life and environmental sciences Topics 4.1–4.4: Building blocks; Transport over larger distances; Interactions with the environment and Explaining change.	Multiple choice, structured, closed and open short answer questions, with greater emphasis on knowledge and application (AO1 and AO2) than analysis and evaluation (AO3).
2 22nd May		Multiple choice, structured, closed and open short answer questions. This paper assesses most of the analysis and evaluation (AO3) skills, and most of the work on the required practical's, for the topics.
3 7th June	Physical sciences Topics 4.5–4.8: Building blocks for understanding; Interactions over small and large distances; Movement and interactions and Guiding Spaceship Earth towards a sustainable future.	Multiple choice, structured, closed and open short answer questions, with greater emphasis on knowledge and application (AO1 and AO2) than analysis and evaluation (AO3).
4 11th June		Multiple choice, structured, closed and open short answer questions. This paper assesses most of the analysis and evaluation (AO3) skills, and most of the work on the required practical's, for the topics.

Exams - Triple Science

Paper	Content	Questions
Biology 1 10th May	Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.	<ul style="list-style-type: none">• Multiple choice, structured, closed short answer and open response.
Biology 2 7th June	Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.	
Chemistry 1 17th May	Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.	
Chemistry 2 11th June	Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.	
Physics 1 22nd May	Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure.	
Physics 2 14th June	Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics. Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity.	

Be equipped for your exam

