Maths Revision

Mrs C Davies

Revising for maths is doing maths

- Where to find suitable resources for GCSE Maths revision
- Understand expectations regarding exam preparation and revision

What does effective maths revision look like?

Short answer; doing questions of appropriate challenge and checking the answers.

Past Papers and getting them marked
Working on corrections
Learning key formulae and terminology
Working on ‘Problem Solving Style’ Questions
Attending Revision Sessions

Revision resources:

Edexcel Exam Papers and Mark Schemes – Working through exam papers allows the students to become familiar with the style of questions. It is also important students engage with the mark schemes as marking questions themselves helps them to see how the marks are allocated.

Practice Papers and Mark Schemes

Exam Questions as Homework – set at discretion of teacher

4 It would take 120 minutes to fill a swimming pool using water from 5 taps.

(a) How many minutes will it take to fill the pool if only 3 of the taps are used?

..... minutes

(2)

(b) State one assumption you made in working out your answer to part (a).

.....

.....

(1)

(Total for Question 4 is 3 marks)

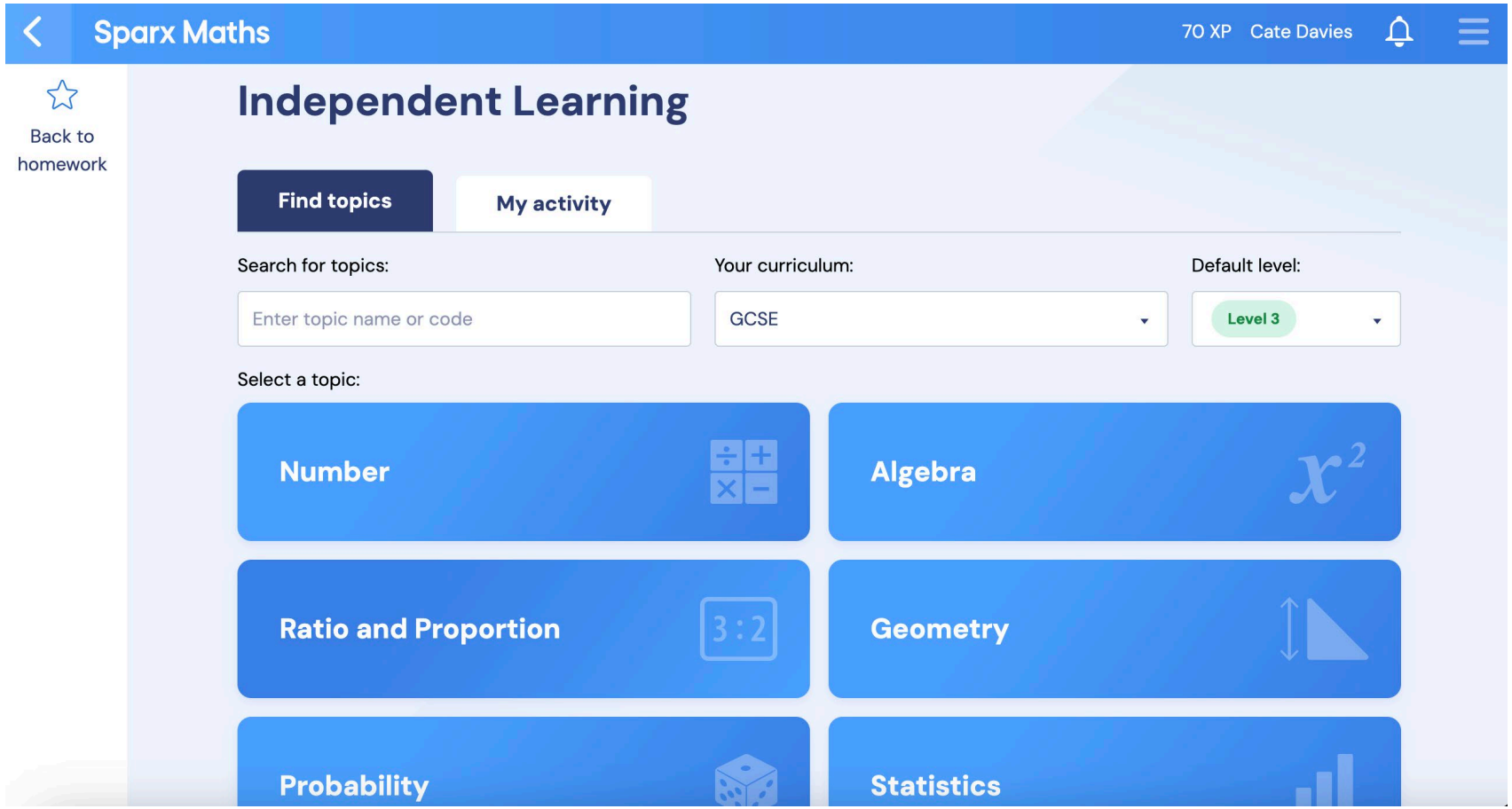
Paper: 1MA1/1H

Question	Answer	Mark	Mark scheme
4 (a)	200	M1	for 120 × 5 + 3 oe
		A1	cao
(b)	statement	C1	Statement that each tap fills at the same rate or that the rate does not change over time Examples **Acceptable responses:** Taps are running at the same speed They (clearly referring to taps) all fill the pool with the same volume of water The amount of water is the same in the same time (again referring to taps) Each tap is doing a fifth of the filling That all taps take equal time to fill the pool All taps produce the same amount of water That the water flow stays at the same rate over the whole time. **Non acceptable responses** It will take more time because there are less taps The less taps used the longer it takes to fill the pool That 1 tap can take up to 24 mins each 3 taps will take longer to fill the pool

Additional guidance
Any statement referring to the same amount of water flowing from each tap is acceptable.

Revision resources:

Sparx Maths www.sparxmaths.uk

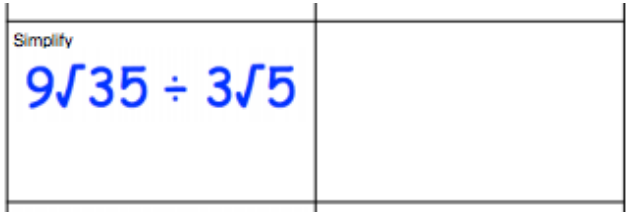


Revision resources:

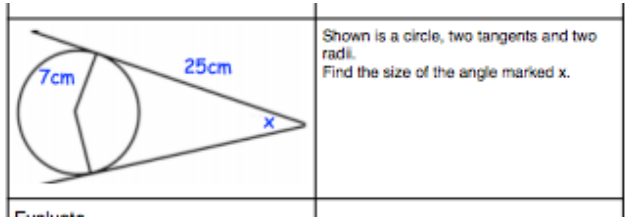
Corbett Maths – www.corbettmaths.com

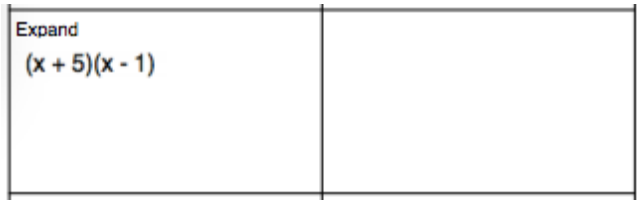
Videos, Exam Questions with Answers, Textbook exercises all broken down by topic

5 a day questions

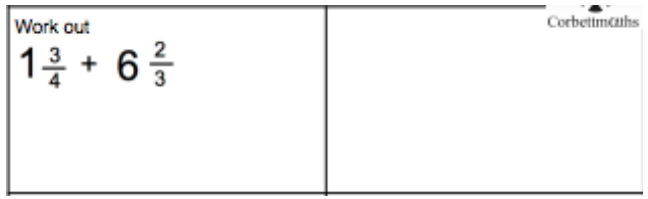


Higher





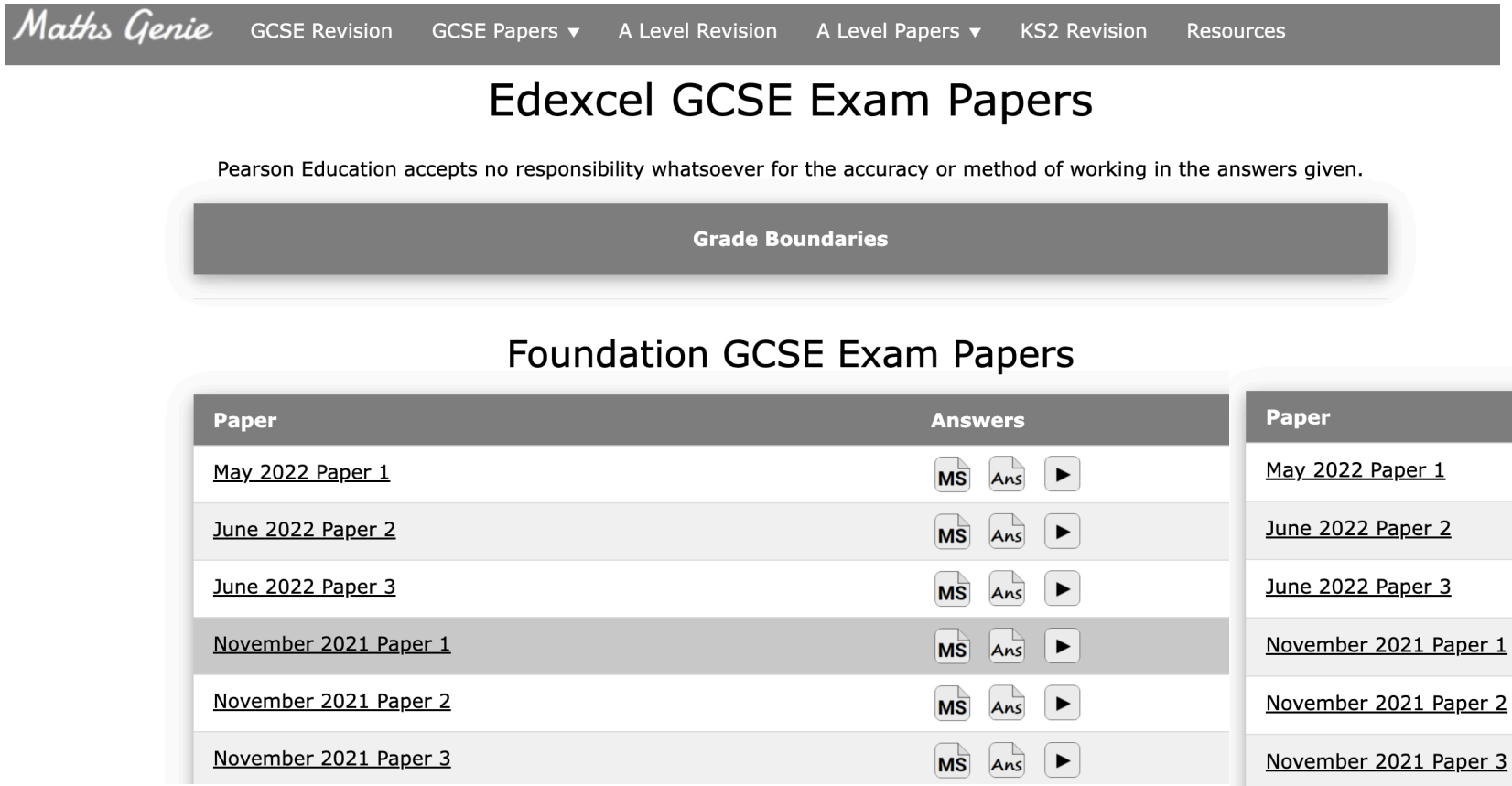
Foundation



Revision resources:

Maths Genie - http://mathsgenie.co.uk/

Past paper banks with mark schemes model answers and videos explanations



Revision resources:

Maths Genie - http://mathsgenie.co.uk/

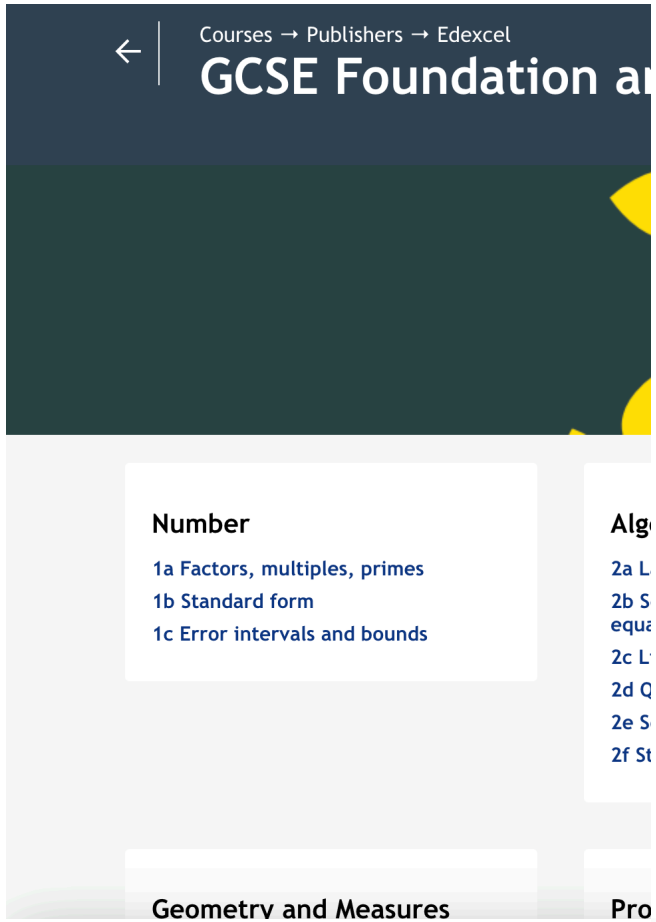
Exam Questions with Answers all broken down by Grade

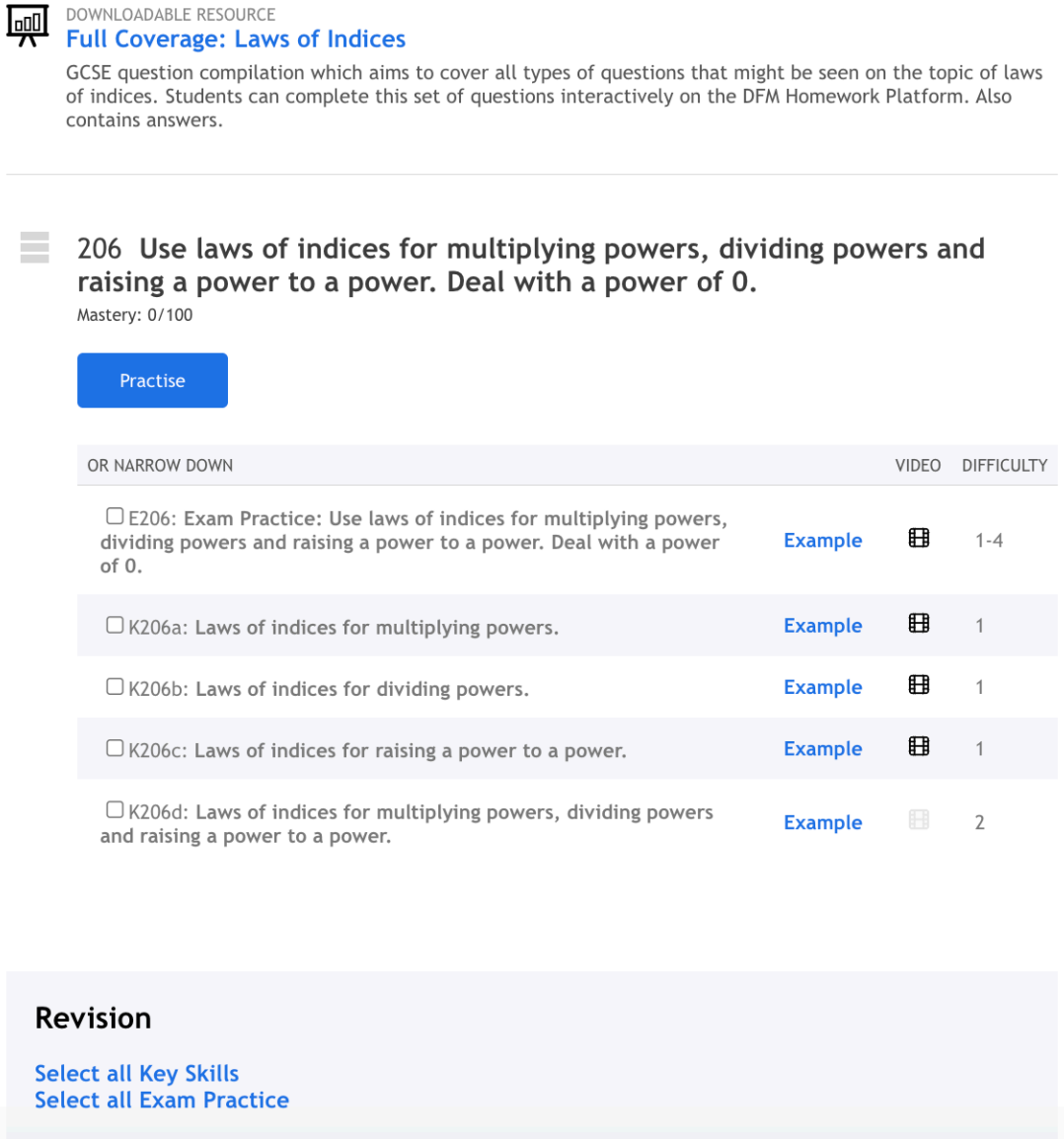
Grade 8/9

Videos	Exam Questions	Exam Questions Booklet	Solutions
Quadratic Simultaneous Equations	Exam Questions	Quadratic Simultaneous Equations	Solutions
Transforming Graphs y=f(x)		Transforming Graphs y=f(x)	Solutions
Proof	Exam Questions	Proof	Solutions
Completing the Square	Exam Questions	Completing the Square	Solutions

Revision resources:

drfrostmaths www.drfros





Revision resources:

Following the mock exams we will creating individual QLA's

Mathematics Assessment Feedback

Paper March Mock Paper H1

Qs	Question Topic	Score	Clip Number
1	Share using a ratio	2 / 2	
2	Age problem	0 / 4	
3	Volume / surface area of cube	4 / 4	
4	Estimate for speed/dist/time	3 / 4	
5	Money word problem	4 / 4	
6	Tree diagram	4 / 4	
7	Cubic graph	0 / 1	
8	Applying area of a circle	2 / 3	
9	Solve inequality / quadratic	1 / 5	
10	Box plots	4 / 5	
11	1-D similarity	4 / 4	
12	Enlargement	0 / 2	
13	2-D / 3-D enlargement	1 / 4	
14	Inverse proportion	0 / 3	
15	Ratio problem	0 / 3	
16	L-shape area with algebra	1 / 5	
17	Pythagoras with algebra	0 / 3	
18	Surds	0 / 5	
19	Probability / algebra	0 / 2	
20	Functions	0 / 5	
21	Exponentials	0 / 4	
22	Proof - circles / angles	0 / 4	
	Total	30 / 80	

Mathematics Assessment Feedback

Paper March Mock Paper H2

Qs	Question Topic	Score	Clip Number
1	Use your calculator	3 / 3	
2	Convert metric area	0 / 2	
3	LCM problem	3 / 3	
4	Pressure formula (given)	2 / 3	
5	Use quadratic graph	1 / 3	
6	Compound interest	3 / 5	
7	Angles and algebra	5 / 5	
8	Estimate of mean	3 / 3	
9	Scale factor problem	2 / 3	
10	Cumulative frequency	1 / 6	
11	Nested trigonometry	4 / 4	
12	Inequalities / regions	0 / 4	
13	Circle theorems	0 / 3	
14	Simplify fraction / quadratics	0 / 3	
15	Ratio problems	0 / 5	
16	Volume / surface area of cone	2 / 4	
17	Probability	2 / 4	
18	Functions	1 / 3	
19	Bounds, suitable accuracy	3 / 4	
20	Vectors	1 / 5	
21	Circle graph problem	0 / 5	
	Total	36 / 80	

For every exam paper completed by the students there will be a QLA highlighting their strengths and weaknesses.

Further resources available:

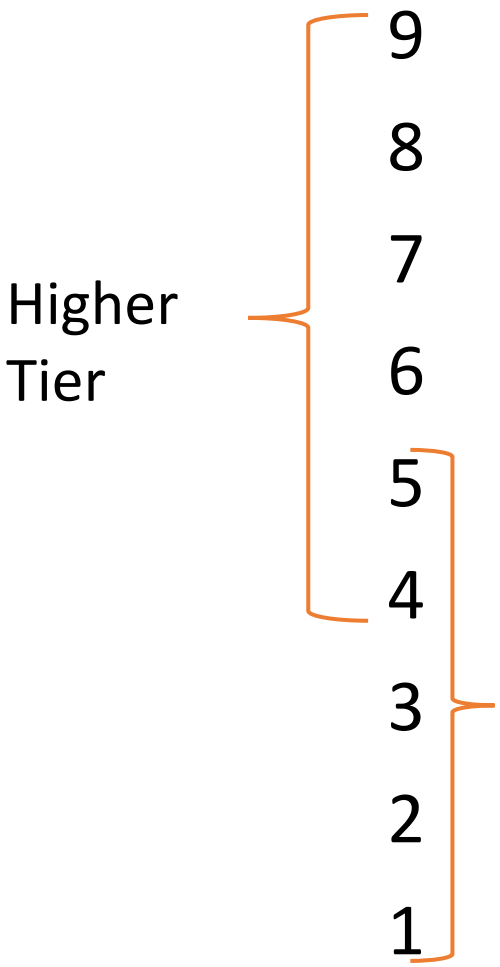
- Your Maths teacher
- Revision guides and workbooks
- Revision sessions (look out for them and attend!)

  Monday Lunchtimes (Higher)

  Monday Afterschool (Foundation)
- Friday morning support sessions – targeted invites

Structure of the Maths GCSE

- Students sit 3 papers (each 1.5 hours long)



Maths GCSE Grade Boundaries 2025

Exam					Grade								
Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
Edexcel	June	2025	F	240					175 73%	144 60%	105 44%	67 28%	29 12%
Edexcel	June	2025	H	240	217 90%	186 78%	156 65%	121 50%	87 36%	53 22%	36 15%		

Pen, Pencil, Ruler

Calculator

All students must have a scientific Calculator. They should get one as soon as possible if they do not.

Need to be familiar with their calculators before the exam so they know how different functions like sin, cos, tan, square root work on their calculators

Compasses and Protractor.

Check the compasses work and don’t slip.

Formulae Sheet

Higher Tier Formulae Sheet

Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

Area of a trapezium $= \frac{1}{2}(a + b)\,h$

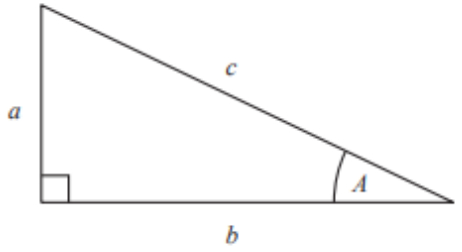
Volume of a prism = area of cross section × length

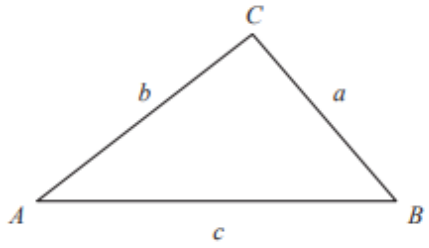
Where r is the radius and d is the diameter:

Circumference of a circle $= 2\pi r = \pi d$

Area of a circle $= \pi r^2$

Pythagoras' Theorem and Trigonometry





Compound Interest

Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

Total accrued $= P\left(1+\frac{r}{100}\right)^n$

END OF EXAM AID

Foundation Tier Formulae Sheet

Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

Area of a trapezium $= \frac{1}{2}(a + b)\,h$

Volume of a prism = area of cross section × length

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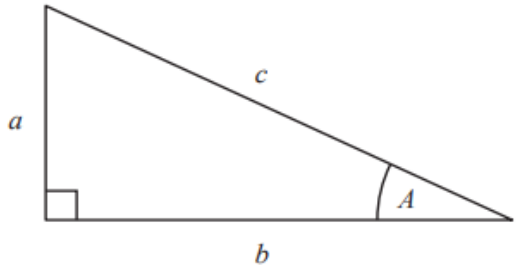

In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

$a^2 + b^2 = c^2$

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$\sin A = \frac{a}{c}$ $\cos A = \frac{b}{c}$ $\tan A = \frac{a}{b}$

Compound Interest

Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

Total accrued $= P\left(1+\frac{r}{100}\right)^n$

Probability

Where P (A) is the probability of outcome A and P (B) is the probability of outcome B:

P (A or B) = P (A) + P (B) – P (A and B)

END OF EXAM AID

P (A or B) = P (A) + P (B) – P (A and B)

P (A and B) = P (A given B) P(B)

Success in Maths

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Practice, Assess, Practice, Assess

If you have any further queries, please email

Head of Maths: c.davies@roundwoodpark.co.uk
KS4 Coordinator: m.aitken@roundwoodpark.co.uk

Where next…

HOUSE	SESSION 1 (7:30pm)	SESSION 2 (7:45pm)	SESSION 3 (8pm)
Cadbury, Frank and GT	English (Mrs Jackson) Main hall	Science (Mr Connor) Canteen	Maths (Mrs Davies) Sixth form common room
Mandela and Owens	Science (Mr Connor) Canteen	Maths (Mrs Davies) Sixth form common room	English (Mrs Jackson) Main hall
Scott and Wilberforce	Maths (Mrs Davies) Sixth form common room	English (Mrs Jackson) Main hall	Science (Mr Connor) Canteen