

Passport to a Strong Pass (Grade 5)

Name: _____

MATHEMATICS

What you need to succeed

- | | |
|---|---|
| <input type="checkbox"/> Belief that anyone can do maths | <input type="checkbox"/> How to self-quiz |
| <input type="checkbox"/> Revision timetable created | <input type="checkbox"/> I know my targets |
| <input type="checkbox"/> Casio/scientific Calculator | <input type="checkbox"/> Exam techniques |
| <input type="checkbox"/> Geometry set | <input type="checkbox"/> Get your mind right |
| <input type="checkbox"/> Edexcel revision book (Foundation) | <input type="checkbox"/> Know your calculator |
| <input type="checkbox"/> I know my SPARX Login | <input type="checkbox"/> I know where to get help |



Revision Guidance Videos

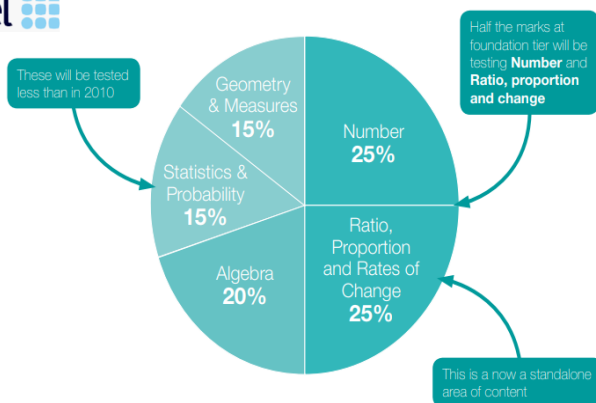
Maths exam information

Exam dates:



Foundation

- Paper 1 (non-calculator) -
Thurs 15th May 2025 (AM)
- Paper 2 (calculator) -
Weds 4th June 2025 (AM)
- Paper 3 (calculator) -
Weds 11th June 2025 (AM)



Mock Exam dates:

- Paper 1
- Paper 2
- Paper 3

Website	What's it useful for?	✓
www.montgomerymaths.co.uk	Revision resources, videos and links	
www.mathsgenie.co.uk/GCSE	Exam questions sorted by grade and topics with answers. Some video support	
www.corbettmaths.com	<ul style="list-style-type: none"> 5 a day sheets — 5 questions for every day of the year with answers. Worksheets for every topic with video support and answers 	
www.onmaths.com	Find the online mini-mocks that mark them as you go. Find the "Demon questions" for more challenge.	
www.ssddproblems.com —excellent for method selection	Sets of 4 questions that look the same on the surface but require different approaches (answers included)	
www.mathsbot.com	Visit the GCSE resources to create revision grids and practice papers with answers.	

Number

Topic	Topic code	R	A	G
Fractions	U224, U538, U793			
Factors, multiples and primes	U739, U250			
Percentage change	U671, U332, U988			
Standard form	U330, U534, U264, U290			
Error intervals	U657			

Algebra

Topic	Topic code	R	A	G
Linear equations	U325, U870, U599			
Linear inequalities	U759, U738, U145, U337			
Index laws	U662			
Linear simultaneous equations	U760, U757, U836, U137			
Linear graphs and coordinates	U315, U669, U477, U848, U377			
Quadratic graphs and equations	U989, U667, U228, U601			

Ratio and proportion

Topic	Topic code	R	A	G
Ratio	U687, U753, U176, U577, U921, U865			
Speed	U151			
Density and pressure	U910, U527			
Proportion	U721, U357, U610			

Geometry

Topic	Topic code	R	A	G
Area	U226, U343, U950			
Volume	U786, U174, U915			
Angles	U655, U826, U329, U427			
Pythagoras' theorem	U385			
Trigonometry	U605, U283, U545			
Transformations	U196, U799, U696, U519, U766			

Probability

Topic	Topic code	R	A	G
Calculating probabilities	U408, U510, U683, U580			
Expected outcomes	U166			
Tree diagrams	U558, U729			
Set notation	U748, U296			

Statistics

Topic	Topic code	R	A	G
Averages	U717, U569			
Averages with grouped data	U877			
Sampling	U162			
Scatter graphs	U199, U277, U128			
Frequency polygons	U840			

Effort score tracker

Week Beginning	Effort score 1-5		SPARX tasks completed?	Practice exam done?	Independent practice?
	Class	Home			
13/1/2025					
20/1/2025					
27/1/2025					
3/2/2025					
10/2/2025					
HALF TERM 17/2/2025					
24/2/2025					
3/3/2025					
10/3/2025					
17/3/2025					
24/3/2025					
31/3/2025					
EASTER HOLIDAYS					
EASTER HOLIDAYS					
Tuesday 22/4/2025					
28/4/2025					
5/5/2025					
Paper 1 week 12/5/2025					
19/5/2025					
HALF TERM 26/5/2025					
Paper 2 week 2/6/2025					
9/6/2025					

Intervention so far:

- Exam analysis: students should have gone through the past exam, highlighting key mistakes.
- Complete end of term exam question-by-question analysis.
- Class teacher used this to inform planning and intervention sessions.
- Students should have filled in the RAG analysis for each exam.
- RAG has links to the SPARXs website so students can look up any Red or Amber topics.
- Set small manageable tasks in class
- Praise when something is achieved give out postcards .
- Extra work checks are used throughout lessons to check understanding
- Targeted questions throughout lessons to check understanding.

TARGETS:

- To push yourself in class to attempt the more difficult questions
- Show full working out for each stage in the question.
- Complete all learning task to a good standard
- Catch up on ALL SPARX homework
- Volunteer to answer questions in class discussions
- Use time at home to review red topics from end of term exam.

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:

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

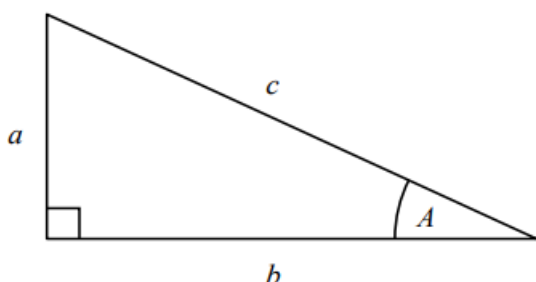
Volume of a prism = area of cross section \times length

Where r is the radius and d is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

Pythagoras' Theorem and Trigonometry



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:

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

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:

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

Probability

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

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

Revision Timetable

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
						Day Off
Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	
Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	
Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	
Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	
Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	
Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	Break – 1 hour	
Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	Break – 5 mins	