



Mr Ealden
Head of Maths

GCSE maths support guide

Mathswatch

www.vle.mathswatch.co.uk

Revision videos on EVERY topic
Interactive questions
Printable worksheets

Sparx Maths

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The **BEST** site for topic-based
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Clip 150a Pythagoras' Theorem - A Simple Approach

One Minute Maths

Interactive Questions

Worksheet

Find a Clip

Qualification

Tier

Grade

Topic

Search

Choose Clip (4)

Clip	Title
150a	Pythagoras' Theorem - A Simple Approach
150b	Pythagoras' Theorem - An Algebraic Approach
150c	Pythagoras' Theorem - Line on a Graph
217	Pythagoras in 3D

Clip 150

PYTHAGORAS' THEOREM

SIMPLE APPROACH
























06:33

Mathswatch 6 month revision schedule – launched next week

Higher Tier 6 month revision schedule

	Number	Algebra	Ratio & Proportion	Geometry & Measures	Probability & Stats	Total time of clips (OMM)	Grade	Completed?	
OCTOBER	Session 1	32		48, 49, 50, 54, 55, 56		7 mins	2		
	Session 2	66, 67, 68, 69	93, 94, 95	105	112		9 mins	3	
	Session 3	70, 71, 72, 73, 74	96, 97	106			8 mins	3	
	Session 4	75, 76, 77	98, 99	107	113		7 mins	3	
	Session 5	78, 79, 80	100, 101		114a/b, 115		8 mins	3	
NOVEMBER	Session 1	81, 82, 83	102, 103, 104			125, 126	8 mins	3	
	Session 2	84, 85			116, 117, 118, 119	127a/b	8 mins	3	
	Session 3	86, 87, 88, 89		108, 109, 110, 111		128, 129	10 mins	3	
	Session 4	90, 91, 92			120, 121, 122, 123, 124	130a/b	10 mins	3	
	Session 5	131, 132	133		145, 146a/b, 147		7 mins	4	
DECEMBER	Session 1		134a/b, 135(a or b)	142, 143	148		6 mins	4	
	Session 2		136, 137	144	149		4 mins	4	
	Session 3		138, 139, 140, 141			151	5 mins	4	
	Session 4				150a/b	152, 153	4 mins	4	
	Session 5	154, 155, 156		164	165		5 mins	5	
JANUARY	Session 1		157, 158, 159a/b		166, 167		6 mins	5	
	Session 2		160, 161, 162, 163		168		5 mins	5	
	Session 3				169, 170, 171	175	4 mins	5	
	Session 4				172, 173, 174	176	4 mins	5	
	Session 5	177	178, 179, 180				4 mins	6	
FEBRUARY	Session 1			181(a or b), 182	185, 186, 187		5 mins	6	
	Session 2			183, 184			2 mins	6	
	Session 3	188, 189	190, 191		200	204	6 mins	7	
	Session 4		192, 193, 194		201, 202, 203		6 mins	7	
	Session 5		195, 196, 197, 198	199		205	6 mins	7	
MARCH	Session 1	206	208, 209				3 mins	8/9	
	Session 2	207a/b	210, 211				4 mins	8/9	
	Session 3		212, 213		217		3 mins	8/9	
	Session 4		214, 215		218		3 mins	8/9	
	Session 5		216		219		2 mins	8/9	

Sparx Maths ≈ 1 hour weekly homework

Student	Compulsory Homework					Optional Homework		IL ⓘ	Previous	
	Completion	Working time ⓘ	Completion day	Alerts	Answers	XP Boost	Target	Time	W2	W3
M	✓ 	0h 40m	6 days early	 4	View >	✓	✓	0h 00m	✓	✓
J	✓ 	0h 35m	1 day early		View >	-	-	0h 00m	96%	✓
J	✓ 	0h 55m	7 days early		View >	-	-	0h 00m	✓	✓
Iz	✓ 	0h 44m	6 days early		View >	-	-	0h 00m	✓	✓
S	✓ 	0h 54m	6 days early		View >	-	-	0h 00m	✓	✓
A	✓ 	0h 59m	1 day early		View >	-	-	0h 00m	26%	✓
S	✓ 	0h 46m	3 days early		View >	-	-	0h 00m	✓	✓
M	90% 	0h 56m	Incomplete	 1	View >	-	-	0h 00m	82%	95%
S	83% 	1h 02m	Incomplete	 2	View >	-	-	0h 00m	97%	89%
C	83% 	0h 54m	Incomplete	 1	View >	-	-	0h 00m	97%	84%
E	83% 	0h 35m	Incomplete		View >	-	-	0h 00m	✓	83%
L	80% 	0h 27m	Incomplete	 1	View >	-	-	0h 00m	87%	76%
S	75% 	0h 17m	Incomplete		View >	-	-	0h 00m	58%	74%
N	74% 	0h 51m	Incomplete		View >	-	-	0h 00m	75%	86%
E	73% 	0h 31m	Incomplete		View >	-	-	0h 00m	✓	88%
L	69% 	0h 24m	Incomplete		View >	-	-	0h 00m	45%	74%
B	67% 	0h 21m	Incomplete		View >	-	-	0h 00m	61%	73%
R	53% 	0h 19m	Incomplete		View >	-	-	0h 00m	✓	76%

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Grade 5

Topic	Example(s)	Exam Questions	Solutions
Reverse Percentages	Revision	Reverse Percentages	Solutions
Standard Form	Revision	Standard Form	Solutions
Speed and Density	Revision	Speed and Density	Solutions
Changing the Subject of a Formula	Revision	Changing the Subject of a Formula	Solutions
Expanding and Factorising Quadratics	Revision	Expanding and Factorising Quadratics	Solutions
Solving Quadratics	Revision	Solving Quadratics	Solutions
Drawing Quadratic Graphs	Revision	Drawing Quadratic Graphs	Solutions
Drawing Other Graphs: Cubic/Reciprocal	Revision	Cubic/Reciprocal Graphs	Solutions
Simultaneous Equations	Revision	Simultaneous Equations	Solutions
Solving Simultaneous Equations Graphically	Revision	Solving Simulatneous Equations Graphically	Solutions
Midpoint of a Line Segment	Revision		
Gradient of a Line	Revision		
Equation of a Line	Revision	Equation of a Line	Solutions
Spheres and Cones	Revision	Spheres and Cones	Solutions
Sector Areas and Arc Lengths	Revision	Sectors and Arcs	Solutions
Similar Shapes (Lengths)	Revision	Similar Shapes (Lengths)	Solutions
SOHCAHTOA	Revision	SOHCAHTOA	Solutions
Exact trig values	Revision		
Congruent Triangles	Revision	Congruent Triangles	Solutions
Probability Trees	Revision	Probability Trees	Solutions
Venn Diagrams	Revision	Venn Diagrams	Solutions

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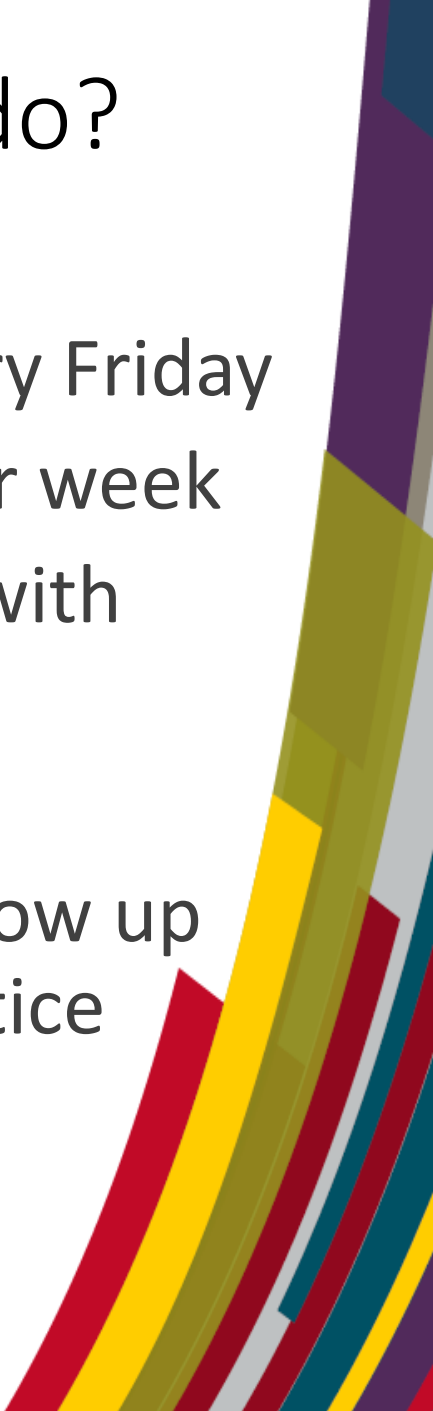
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What support are we offering?

- Teacher-led small group intervention.
 - 45 minute sessions with your maths teacher
 - Groups of up to 8 students
 - Different group every 4 weeks
 - Wednesday 3:15-4:00pm
- Weekly exam paper practice in class for all
- Form time intervention for selected students 2 mornings a week



What do students need to do?

- Complete Sparx each week – due every Friday
 - Independent revision at least once per week
 - Come to school equipped, especially with their scientific calculator
 - Attend intervention when invited
 - Complete weekly exam paper and follow up with topics identified as needing practice
- 

Preparing for maths exams

- Little and often – Maths exams are spread over 4 weeks so keep skills fresh
- **ATTEMPT** all questions on every exam paper
- Use resources to help you revise what has been forgotten or what you get wrong
- Don't just watch videos; **DO MATHS**
- Use your teachers!

June 24	1	2	3	4	5	6	7	8	9
H / 240			26	42	73	105	137	167	197
			11%	18%	30%	44%	57%	70%	82%
F / 240	27	65	103	142	175				
	11%	27%	43%	60%	72%				