

Year 9		
Spring Term Year 9	vle.mathswatch.co.uk	www.kerboodle.co.uk
Unit 5 Non-Linear Graphs	Mathswatch clips	Textbook reference book 3B
Interpret and draw distance-time graphs and other graphs that show rates of change	A12a A21b	Ex 5.1
Use graphs for rates of change to solve problems	A21a A21b	Ex 5.1
Interpret and draw the graph of a quadratic function $y=ax^2 + bx +c$	A15	Ex 5.2
State the properties of quadratic graphs	A15	Ex 5.2
Interpret and draw exponential, reciprocal and piece-wise graphs	A28	Ex 5.3
State the properties of exponential and reciprocal graphs	A28	Ex 5.3
Unit 6 Geometric Construction and Loci		
Construct perpendicular bisectors and angle bisectors using a pair of compasses and a ruler	G26a G26c	Ex 6.1
Recognise the properties of perpendicular bisectors and angle bisectors	G26a G26c	Ex 6.1
Construct a perpendicular to a line from a point or at a given point using a pair of compasses and a ruler	G26b	Ex 6.1
Construct triangles using a pair of compasses, a ruler and a protractor	147	Ex 6.2
Construct and describe loci for the paths of points on a plane	G27	Ex 6.3
Unit 7 Pythagoras' Theorem		
State Pythagoras' Theorem	G30 150a 150b	Ex 7.1
Apply Pythagoras' Theorem to solve problems involving right-angles triangles	G30 150a 150b	Ex 7.2
Apply the converse of Pythagoras' Theorem to determine whether a triangle has a right angle	G30 150a 150b	Ex 7.3
Recognise and use the perpendicular distance from a point to a line as the shortest distance to the line	G30 150a 150b	Chapter 7
Unit 8 Congruence, Similarity and Enlargement		
State the conditions for two triangles to be congruent	G31	Ex 8.1
Identify Congruent triangles	G31	Ex 8.1
Solve problems involving congruence	G31	Ex 8.1
Understand the idea of similarity	R10	Ex 8.2
State the properties of similar polygons		Ex 8.2
Solve problems involving similarity	144	Ex 8.2
Enlarge a plane figure by a scale factor	G28	Ex 8.3
Interpret scale drawings	G15	Ex 8.4
Unit 9 - Trigonometry		
State the definitions of trigonometric ratios (sine, cosine and tangent) of acute angles	G35a G35b	Ex9.1 Ex 9.2
Use trigonometric ratios to find unknown sides and angles in right-angled triangles	G35a G35b	Ex 9.3
Apply the trigonometric ratios to solve problems	G35a G35b	Ex 9.4

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