

Year 9	Questions and Videos	RAG	Tick when revision is complete	
9aMa1 and 9bMa1 Revision List*				
9.1 Calculating				
Use rules of indices for multiplying and dividing (for standard form)	174			
Convert between normal numbers and those in standard form	300, 301, 302, 303			
Add/Subtract numbers written in standard form				
Multiply/Divide numbers written in standard form				
Correct a number that is not in standard form				
Truncate numbers to a designated point				
Round numbers to a designated degree of accuracy (decimal places)	278			
Round numbers to a designated degree of accuracy (significant figures)	279a			
Round numbers to a designated degree of accuracy (highest/Lowest values)	280			
Use inequalities to show the range of values for a rounded number	377			
Create error intervals for rounded values				
9.2 Construction				
Construct a perpendicular to a specific point on a line	79			
Construct angle and perpendicular bisectors	72, 78			
Understand the meaning of loci				
Construct the locus... Of a point Between two points Around a shape Between two lines	video 1			
	video 2			
	video 3			
	Video			
Draw a 3D shape from its plan view and elevations				
Draw the plan view and elevations from a drawing of a 3D shape				
9.3 Simplifying algebraic expressions				
Multiply any two linear expressions	18			
Expand a set of square brackets	14			
Simplify algebraic expressions	9			
Create an expression or a formula to describe a situation				
Factorise quadratics by taking out a single factor	117			
Factorise quadratics by writing it in double brackets	118			
Show that two algebraic expressions are equivalent	365			
9.4 Proportion				
Direct proportion	video			
Inverse proportion	video			
Know the key features of the graphs for direct and inverse proportion				
Know the key features for formulae that represent direct or inverse proportion				
Know the meaning of congruent (in shapes)	66			
Know the meaning of similarity (in shapes)	291			
Work out missing lengths in similar shapes	292			
Know the definition of a compound unit				
Calculate speed	299			
Calculate pressure	385			
Calculate density	384			
Convert units of density, pressure or speed				
9.5 Fibonacci and quadratic sequences				
Know the Fibonacci sequence	287a			
Generate Fibonacci-type sequences				
Find missing terms in Fibonacci-type sequences				
Substitute numbers into formulae	20			
Generate terms of a quadratic sequence from a rule or nth term	388			
Calculate first and second differences for quadratic sequences				
Continue quadratic sequences				
9.6 Linear inequalities				
Know the definition for the four inequality symbols	176, 177			
Use the correct inequality symbol for a situation				
Find a set of integers that are solutions to an inequality				
Use correct set notation to list a set of integers				
Show inequalities on a number line				
Use a number line to find a set of values for inequalities				
Solve linear inequalities, including where the unknown is on both sides and where brackets are present	178, 179			
9.7 Sectors, arcs and cylinders				
Label a circle with a... Radius Diameter Chord Sector Segment Tangent	61			
Calculate arc lengths				
Calculate sector areas		58		
		46		

Calculate an angle from either an arc length or a sector area			
Calculate the surface area of a cylinder	315		
Calculate with multiples of pi			
Find missing sides in Right Angled Triangles using Pythagoras' theorem	257, 260, 261		
Explain the meaning of Pythagorean Triples			
9.8 Proof			
Know the tests for congruency...			
SSS			
SAS			
ASA (AAS)	67		
RHS			
Use geometrical knowledge to prove two triangles are congruent			
Explain why the base angles in an isosceles triangle must be equal			
9.9 Straight lines and non-linear graphs			
Know the meaning of each part of $y = mx + c$ to describe a straight line			
Rearrange equations to the form $y = mx + c$			
Find the equation of a line from...	191, 194, 195		
One point and a gradient			
Between two points			
Find parallel lines in the form $y = mx + c$	196		
Plot graphs of quadratic functions	264		
Plot graphs of cubic functions	344		
Plot graphs of reciprocal functions	346		
Recognise and sketch graphs of quadratic, cubic and reciprocal functions			
9.10 Simultaneous equations			
Understand that two equations are needed to solve equations with two unknowns	295		
Solve pairs of linear simultaneous equations			
Find approximate solutions to simultaneous equations using a graph	297		
Derive two simultaneous equations for solving	BBC Bitesize page		
9.11 Tree diagrams			
List probability outcomes using a tree diagram			
Fill in probabilities on a tree diagram for independent and dependent events	252		
Know when to add and when to multiply probabilities			
Use a tree diagram to calculate combined probabilities			
Understand that relative frequency tends towards a theoretical probability if the sample is large enough	248		
9.12 Presentating data			
Construct and interpret graphs of time series	video		
Construct and interpret compound bar charts (Composite)	video		
Construct and interpret compound bar charts (Comparative)	video		
Construct and interpret scatter graphs			
Recognise correlation in a scatter graph	165 - 168		
Use a line of best fit to estimate missing values			