

Year 9	Videos and worksheets	RAG	Tick when revision is complete
9aMa3 and 9bMa3 Revision List*			
8.7 Ratio & Proportion			
Write a ratio from a given situation			
Write a ratio as a fraction	269a		
Write a fraction as a ratio			
Use scalers/multipliers to solve proportion problems	255		
	256		
Use fractions in the context of ratio and proportion			
Know that a compound unit is a combination of two or more units	Video		
Calculate speed, distance and time from given information	299		
Convert quantities to change units	349		
8.10 Percentage Change			
Identify the percentage multiplier for carrying out a percentage increase or decrease			
Use percentage multipliers when carrying out percentage increases or decreases	239		
Calculate the original value when a number has had a percentage change (reverse percentages)	240		
Calculate simple interest for a number of years	Video		
Understand that an exact value fraction is different to a rounded answer			
Use exact value fractions in calculations			
8.8 Linear Sequences			
Generate a sequence given a first term and a rule	286		
Generate a sequence from a position-to-term (nth term) rule	Video		
Find the position-to-term (nth term) for a linear sequence			
Use the nth term to ascertain whether or not a number is in a sequence	288		
8.9 Angles in parallel lines and polygons			
Know the meaning of alternate and corresponding angles			
Identify alternate and corresponding angles between parallel lines			
Know that alternate angles are equal	25		
Know that corresponding angles are equal			
Find missing angles in diagrams using alternate and corresponding angles			
Know how to work out the total of the angles in any polygon			
Establish the size of interior angles in any regular polygon	32		
Establish the size of exterior angles in any regular polygon			
8.13 Linear Graphs			
Plot graphs of linear functions by using a table of values	186		
Find the gradient of a straight line that is on a set of axes	189		
Find the y-intercept of a straight line when drawn on a set of axes	191		
Know the differences between a linear and a quadratic graph	Video (until 8:20)		
Plot graphs of quadratic functions by using a table of values	264		
Sketch linear and quadratic graphs			
Plot and interpret distance-time or velocity-time graphs	171		
8.12 Circles			
Recognise and label, on a circle: Radius, Diameter & Sector Chord & Segment Arc Tangent	61		
Know the formula circumference of a circle = $2\pi r = \pi d$			
Calculate the circumference of a circle	60		
Calculate the diameter or radius when the circumference is given			
Calculate the perimeter of composite shapes including part of a circle	62		
Know the formula area of a circle = πr^2			
Calculate the area of a circle	59		
Calculate the diameter or radius when the area is given			
Calculate the area of composite shapes including part of a circle	41		
Calculate the volume of a cylinder	357		
8.11 Linear Equations			
Solve linear equations where the answer is a whole number			
Solve linear equations where the answer is a negative number	110		
Solve linear equations where the answer is a fraction			
Solve linear equations that involve brackets	13		
Check the solution to an equation by substituting			
Know that the intersection of two graphs shows the solution to a linear equation	Video		
8.14 Organising Probability			
List events to probability events in a Venn diagram or two-way table	380		
Fill and use a probability sample space diagram	246		
Use a frequency tree to record the outcomes of probability events	376		
Calculate expected outcomes from theoretical probabilities			
Calculate expected outcomes from experimental data	248		
8.15 Histograms & Scatter Graphs			

Interpret a grouped frequency table			
Construct a grouped frequency table for a data set	Video		
Accurately show a continuous data set on a set of axes			
Construct a histogram for grouped data	157		
Plot a scatter graph			
Understand the meaning of correlation	165		
Interpret a scatter graph as positive, negative or no correlation			
8.16 Grouped Data			
Find the modal class for grouped data	Video		
Find the class that contains the median for grouped data	52		
Calculate an estimate of the mean for grouped data	55		
Estimate the range for grouped data	Video		
Choose appropriate statistics (mean, median, mode, range) for data sets			
Justify which statistic is best to describe a data set			
9.1 Calculating			
Use rules of indices for multiplying and dividing (for standard form)	174		
Convert between normal numbers and those in standard form			
Add/Subtract numbers written in standard form	300, 301, 302, 303		
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			