

Year 8	Video and Worksheet	Tick when complete
<b>8aMa3 and 8bMa3 Revision List*</b>		
<b>7.15 Calculate using areas and volumes</b>		
Calculate the perimeter of a 2D shape	<a href="#">241</a>	
Calculate the area of a		
rectangle	<a href="#">45</a>	
triangle	<a href="#">49</a>	
parallelogram	<a href="#">44</a>	
trapezium	<a href="#">48</a>	
composite shape	<a href="#">41</a>	
Calculate the surface area of a cuboid	<a href="#">310</a>	
Find missing lengths when the volume is known		
<b>7.16 Using graphs and transformations</b>		
	<a href="#">192</a>	
Write the equation for a horizontal or vertical line	<a href="#">193</a>	
Draw and recognise the lines $y=x$ and $y=-x$		
Reflect shapes in the lines $y=x$ or $y=-x$		
Name the equation for the mirror line of a reflection	<a href="#">272</a>	
Describe a translation using a vector	<a href="#">325</a>	
Rotate a shape using the angle, direction and centre	<a href="#">275</a>	
<b>7.17 Presentation of Data</b>		
Construct frequency tables using inequality symbols		
Construct and interpret pictograms and bar charts	<a href="#">162</a>	
Draw and interpret pie charts	<a href="#">163</a>	
<b>7.18 Measuring Data</b>		
Calculate the mode from a list of numbers		
Calculate the median from an odd or even amount of numbers		
Calculate the mean from a list of numbers	<a href="#">56</a>	
Calculate the range of a set of data		
Use the mean to find a missing number in a list		
Estimate the mean from a frequency table	<a href="#">54</a>	
Find the modal class from a frequency table	<a href="#">video</a>	
Work out the class containing the median	<a href="#">51</a>	
Analyse and compare sets of data using an average and the range	<a href="#">bitesize</a>	
<b>8.1 The number system</b>		
Know the definition of a prime number		
Be able to calculate whether a number up to 100 is prime	<a href="#">225</a>	
Write a number as a product of prime factors	<a href="#">223</a>	
Find the Highest Common Factor of two numbers		
Find the Lowest Common Multiple of two numbers	<a href="#">224</a>	
Round numbers to a determined number of significant figures	<a href="#">279a</a>	
Use rounding to estimate answers to questions	<a href="#">215</a>	
Write numbers in standard form with positive and negative powers of 10	<a href="#">300</a>	
<b>8.2 Number operations</b>		
Perform addition and subtraction calculations when dealing with negative numbers	<a href="#">205</a>	
Perform multiplication and division calculations when dealing with negative numbers	<a href="#">206</a>	
	<a href="#">207</a>	
Be able to accurately square or cube negative numbers	<a href="#">Video</a>	
Substitute negative numbers into algebraic expressions	<a href="#">20</a>	
Know that powers and roots fall under the "Indices" within BIDMAS		
Complete BIDMAS calculations accurately with powers and roots	<a href="#">211</a>	
<b>8.3 Enlargement &amp; Accurate drawings</b>		
Enlarge a shape using either an integer or fractional scale factor	<a href="#">104</a>	

	<a href="#">107</a>	
Find the centre of enlargement when a shape has been enlarged	<a href="#">106</a>	
Find the scale factor when a shape has been enlarged	<a href="#">105</a>	
Draw accurate plans and elevations from a 3D drawing	<a href="#">354</a>	
Measure angles accurately and interpret the answer when it is a bearing	<a href="#">26</a>	
Interpret diagrams that involve a scale (eg 1cm = 5km)	<a href="#">283</a>	
Construct a scale drawing involving bearings		
<b>8.4 Introductory Probability</b>		
Know that probability is measured on a scale of 0-1	<a href="#">251</a>	
Know that probabilities can be fractions, decimals or percentages	<a href="#">245</a>	
List all outcomes for events	<a href="#">253</a>	
Work out the probability for equally likely events	<a href="#">Video</a>	
Know that the sum of probabilities for all outcomes is 1	<a href="#">250</a>	
Find missing probabilities using the sum of all probabilities equalling 1		
<b>8.5 Introductory Algebra</b>		
Know that in algebra $a \times b$ is written $ab$	<a href="#">18</a>	
Factorise expressions by taking out a common factor (single bracket)	<a href="#">117</a>	
Simplify expressions by collecting like terms	<a href="#">10</a>	
Simplify expressions with a combination of variables (e.g. $3a^2b + 4ab^2 + 2a^2 - a^2b$ )		
Know that $a^m \times a^n = a^{(m+n)}$	<a href="#">17</a>	
Know that $a^m / a^n = a^{(m-n)}$		
Know that $a^0 = 1$ for any value of $a$	<a href="#">Video</a>	
Change the subject of a formula when one or two steps are required	<a href="#">7</a>	
<b>8.6 Fractions, Decimals &amp; Percentages</b>		
Identify if a fraction is recurring	<a href="#">Video</a>	
Write a decimal as a fraction	<a href="#">123</a>	
Simplify fractions into simplest form	<a href="#">146</a>	
Convert fractions to decimals	<a href="#">127</a>	
Convert decimals to percentages	<a href="#">125</a>	
Convert fractions to percentages	<a href="#">125</a>	
<b>8.7 Ratio &amp; Proportion</b>		
Write a ratio from a given situation		