Year 8 8aMa4 and 8bMa4 Revision List	Video and worksheet	Worksheet	video only	Tick when revision is complete
6.13 Perimeter, Area & Volume				
Find the perimeter of a shape	241			
Calculate for the area of a parallelogram	44			
Calculate the area of a triangle	49			
Calculate the volume of a cuboid	355			
Convert between units of area and volume	350	worksheet		
6.14 Estimating				
Round numbers to nearest 10, 100, 1000	277a, 277b			
Rounding to nearest whole number	276			
Rounding to decimal places	278			
Rounding to significant figures	279a			
Use estimation to work out a rough answer to decimal calculations				
Use estimation to work out a rough answer to a large multiplication questions	215			
Use estimation to work out a rough answer to a large division question				
6.15 Coordinates				
Use and draw coordinates in all four quadrants	84, 85			
Use coordinates to construct a polygon by connecting points				
Carry out a translation when a vector is given	325, 326			
Carry out a reflection in either axis	272, 273, 274			
6.16 Presentation of Data				
Work out the angle required for pie charts	163			
Construct an accurate pie chart from a frequency table				
Read values from a line graph	160			
Construct an accurate line graph from a set of data				
6.17 Measuring Data				
Calculate the mean from a set of data	53	Worksheet (3rd page only)		
Use the mean to find a missing value from a data set				
7.2 Number Properties				
Find a common factor of two numbers (HCF)	219			
Find a common multiple of two numbers (LCM)	218			
Know the prime numbers less than 20	225			
Know the first 12 square numbers	226			
Know the first 5 cube numbers	212			
Understand the notation for indices (powers)	172			
Recognise and use the symbol for square root	228			
Calculate using indices and roots on your scientific calculator	352			
Write down the first 10 triangular number	229			
7.19 Calculating				
Multiply by decimal numbers	204			
Divide decimals by integer	93			
Divide by decimal numbers	92			
Multiply three and two digit numbers (grid method or column method)	199			
Carry out BIDMAS equations accurately	211			
7.3 Understanding fractions and negative numbers				
Place a set of positive and negative numbers in order	208			
Order a list of numbers containing negatives, fractions and decimals	130			
Order fractions using common multiples	144			
Use inequality signs correctly	176			
Use the correct symbols for 'equal' and 'not equal'			video	
7.4 Labelling and constructing shapes				
Know the meaning of faces, edges and vertices	5			
Use notation for parallel lines	231			
Identify perpendicular lines				
Know the meaning of 'regular' polygons	32			
Identify line and rotational symmetry in polygons	316			
	317			
Use AB notation for describing lengths				
Use ∠ABC notation for describing angles			video	
Use ruler and protractor to construct triangles from written descriptions	81			
Use ruler and compasses to construct triangles when all three sides known				
7.5 Properties of Shapes				
Know the names of the first 10 polygons	32			
Identify faces, edges and vertices of a 3D shape	5			
Draw a 3D shape from its net	4			
Name the 6 different special quadrilaterals	2			
Name the 4 different special triangles	327			
Use the properties of triangles and quadrilaterals to solve a problem	37			
	33			
Draw a diagonal on a polygon			video	
7.6 Fractions, Decimals and Percentages				
Write one amount as a fraction of another	136			
Simplify fractions	146			
Convert mixed numbers to improper (top-heavy) fractions	139			
Convert Improper fractions to mixed numbers	140			
Write a percentage as a fraction	126			
Write one amount as a percentage of another	237			
7.7 Using proportion				

	349a			
Convert between metric units of length, weight and capacity	349b			
	349c			
Read a ratio correctly				
Write two or three amounts using a ratio				
Simplify a ratio	269			
Simplify a ratio which begins in different units				
Change to a unit ratio 1:n			video	
Share a quantity using a ratio using a bar method	270			
Solve problems using ratios	271e			
7.8 Using Algebraic Expressions				
Know the meaning of expression, term, formula, equation, function				
Simplify an expression by collecting like terms	9			
Expand a single bracket (multiply out)	13			
Substitute positive numbers into expressions	20			
Substitute positive numbers into formulae				
Use function machines to calculate outputs or inputs	386			
Use an expression to represent a function				
Understand how to use BIDMAS when substituting				
7.9 Using units of measurement				
Measure a line to the nearest millimetre			video	
Measure an angle to the nearest degree using a protractor	31			
Convert between mm,cm,m and km	349a			
Convert between g and kg	349b			
Convert between ml and litres	349c			
Convert between hours and minutes			video	
Solve problems involving converting units				
7.10 Estimating calculations				
Round to a number of decimal places	278			
round to a number of significant figures	279a			
estimate the answer to a calculation by first rounding all numbers to 1 significant figure	215			
Decide if a calculation is correct by estimating				
Decide if a decimal calculation is correct by checking the decimal places				
Use cancelling to make division calculations easier			video	
Use inverse operations to check the solutions				