

				Use the calculator to find the reciprocal		
Week 8	7	4	Fractions, decimals & % Add & - fractions X & ÷ fractions	Convert between fractions, decimals, percentages Add & subtract fractions with different denominators Multiply fractions & divide fractions		
Week 9	7		+ or – algebraic functions Recurring decimals Monthly test	Add & subtract algebraic functions Convert fractions to terminating or recurring decimals vice versa		
November						
Week 10	7	5	Percentage & proportional changes Percentage change Repeated % change Solving ratio & proportion problems Proportional relationships	Calculate the new amount when there is a % increase or decrease Calculate an increase or decrease as a % Calculate the original amount when the final amount is given using inverse operation , unitary method or algebra Use proportional reasoning to solve problems Solve ratio and proportion problems		
Week 11	5	6	Algebra and equations Solve linear and non-linear equations Simultaneous equations	Identify equation, formula, function and identity Solve equations using the transform method Solve simultaneous equation by adding or subtracting, substitution, drawing graphs		
Week 12	7		Solving simultaneous equations using simultaneous equations to solve problems	Use simultaneous equations to solve problems		
Week 13	7		Solving inequalities Linear inequalities in 2 variables	Show solutions to inequalities on a number line Solve linear inequalities with 2 variables		
December						
Week 14-15	5	6	Solving quadratic inequalities Revision	Solve quadratic inequalities		
Week 16	First term test					
Week 17						
Week 18	Vacation					
January 2016						
Week 19	Vacation					

				Simplify expressions Expand 2 brackets Factorizing an expression Change the subject of a formula Substituting values into formula or expression Derive a formula using algebra		
Week 20	7		Discussion of the question paper Factorizing Working with formulae Expressions & formulae Writing simplified expressions Expanding 2 brackets			
Week 21	7		Substituting into expressions and formulae Finding formulae			
Week 22	7	8	Sequence & functions Generating sequences Quadratic sequences T(n) of linear & quadratic sequences	Generate a sequence using first term and term to term rule the nth term rule Generate a quadratic sequence using the nth term rule Find quadratic sequence rule using 1 st & 2 nd difference		
February						
Week 23	5		Monthly test Fraction sequences Spatial patterns Functions	Write the terms of a fractional sequence Use inverse operations to find the inputs of a function machine		
Week 24	7	9	Graphs & functions Linear graphs Graphs of quadratic, cubic and reciprocal functions	Find the intercept & the gradient of a given straight line graph Identify the lines parallel or perpendicular to a given equation Sketch quadratic, cubic & reciprocal functions' curves		
Week 25	7		Draw, sketching & interpreting real life graphs			
Week 26	5	10	Lines and angles, pythagoras Demonstrations and proves Finding angles	Demonstrate geometrical facts Can prove geometrical facts by using the properties of angles and shapes to show they are true for all cases		
March						

Week 27	4		Pythagoras' theorem	Use geometrical reasoning to find an unknown angle or prove something Use Pythagoras theorem to find the length of the 3 rd side of a right angled triangle Use Pythagoras theorem to check whether a triangle is a right angled triangle		
Week 28	7	11	Shape construction & loci	Construct unique triangles when		

			Constructing triangles Congruent triangles Similar shapes	SSS,SAS,RHS is given Identify the congruence triangles Identify similar shapes Use similar triangles to find unknown length		
Week 29	7		Finding unknown lengths Circle construction && congruence 3d shapes Locus & construction	Describe the planes of a 3d shape Construct a locus		
Week 30	Revision					
Week 31	2 nd term test					
April						
Week 31- 32	Preparation of report cards					
Week 33	2nd term vacation					
Week 34	2	12	Discussion of the question paper Coordinates & transformation Combination of transformation Enlargement	Transform shapes using a combination of reflection, rotation and translation Find the original length when the scale factor is given Use scale factor of an enlargement to find unknown lengths		
Week 35	7		Enlargement and area & volume Coordinates & lines Length of line joining 2 points	Use scale factor k_2 , k_3 to find area and volume Find the coordinates of a point that divides a line in a given ratio Find the length of a line joining 2 points		
May						
Week 36	7	13	Measures perimeter , area & volume Practical measurement Compound measures Area & perimeter of arcs & circles	Write a measurement to the nearest mark using an inequality Find length of an arc & area of a sector		
Week 37	7		Surface area & volume Pythagoras theorem & trigonometry to solve problems	Calculate volume of a prism, a cylinder & surface area of a cylinder Find the size of missing angles or lengths of a triangle using sin, cos and tan		

Week 38	7	14	Planning a survey and collecting data Planning a survey	Follow the stages in planning a survey & conduct a survey Design collection sheet or questionnaire		
Week 39	7	15	Analyzing & displaying data Mean, median, mode and range from tables and grouped data Find median & quartiles from cumulative frequency Frequency polygons Scatter graphs Comparing data	Estimate mean, mode, median and range for grouped data Find upper & lower quartile and inter quartile range using cumulative frequency graph Draw a frequency polygon Use it to find the mean and median Draw the best fit line for a scatter graph and find the correlation Compare & interpret a range of data & data displays		
Week 40	6	16	Monthly test Probability Describing and calculating probability Probability of compound events Independent events Estimating probabilities from relative frequency	Identify mutually exclusive events and independent events Use $p(a \text{ or } b) = p(a) + p(b)$ or $p(a \text{ \& } b) = p(a) \times p(b)$ accordingly Estimate probability from relative frequency		
June						
Week 41	Revision					
Week 42-43	3 rd term test					
Week 44	Preparation of report cards					
July						
Week 44	Summer vacation					