Chapter	Time	Topic Break-Down	Learning Objectives
			(Students will be able to)
6: Angles			
	14	6.1 Angle facts	Know the sum of angles on a straight line and around a point
			Use vertically opposite angles
		6.2 Triangles	To colve missing angles problems in triangles
		6.3 Angles in a polygon	To work out the sum of the interior angles in a polygon
			To be able to calculate the size of the interior and exterior angles of any regular
		6.4 Regular polygons	polygon
		6.5 Angles in parallel lines	To solve problems involving alternate, corresponding, allied and opposite angles
			To be able to calculate the size of angles in special quadrilaterals using their
		6.6 Special quadrilaterals	geometric properties
			To make the description of the second
		6.7 Scale drawings and bearings	To draw scale drawings and maps
			To use a bearing to specify a direction
5: Ratio and proportion			
	8	5.1 Ratio	Simplify a ratio
			Express a ratio as a fraction
			Divide amounts in given ratios
			Complete calculations from a given ratio and partial information
		5.2 Converting Ratios	Expressing ratios as a fraction or percentage (including with algebra) Corbett 269a Ap
			Solve ratio problems given one quantity (Corbett maths 271 Workout & Apply)
		5.3 Ratios with one quantity given	
		5.3 Ratios with one quantity given	(minimally different difference given worksheet)
		5.3 Ratios with one quantity given	(minimally different difference given worksheet)
		5.3 Ratios with one quantity given 5.4 Questions with "more" or "less" in them	(minimally different difference given worksheet) Solve ratio problems given the difference (Corbett Maths 269a Workout & Apply) (minimally different difference given worksheet)
		5.3 Ratios with one quantity given 5.4 Questions with "more" or "less" in them	(minimally different difference given worksheet) Solve ratio problems given the difference (Corbett Maths 269a Workout & Apply) (minimally different difference given worksheet)
		5.3 Ratios with one quantity given 5.4 Questions with "more" or "less" in them	(minimally different difference given worksheet) Solve ratio problems given the difference (Corbett Maths 269a Workout & Apply) (minimally different difference given worksheet) Combine two two-part ratios to a three part ratio (Corbett maths 271a) (Mathsgenie
		5.3 Ratios with one quantity given 5.4 Questions with "more" or "less" in them 5.50 Two-part to three-part ratios	(minimally different difference given worksheet) Solve ratio problems given the difference (Corbett Maths 269a Workout & Apply) (minimally different difference given worksheet) Combine two two-part ratios to a three part ratio (Corbett maths 271a) (Mathsgenie Ratio Problems grade 5)
		5.3 Ratios with one quantity given 5.4 Questions with "more" or "less" in them 5.50 Two-part to three-part ratios	(minimally different difference given worksheet) Solve ratio problems given the difference (Corbett Maths 269a Workout & Apply) (minimally different difference given worksheet) Combine two two-part ratios to a three part ratio (Corbett maths 271a) (Mathsgenie Ratio Problems grade 5)

Week Commencing 17th October 2022 - Revision & Assessment

Half Term

Chapter	Time	Topic Break-Down	Learning Objectives
	-		(Students will be able to)
5: Ratio and proportion	11	5.7 Direct proportion problems	Recognise and solve problems that involve direct proportion
		5.8 Best buys	Find either the cost per unit mass or the mass per unit cost and use this to find which
		0.0 0000 00,0	product is cheaper
			Recognise and solve problems involving the compound measures of rates of pay,
		5.9 Compound measures	speed, density and pressure
		E 10 Compound interact and repeated p	arcentere change Celeviate simple and compound interact
		5.10 Compound interest and repeated pe	Calculate simple and compound interest Solve problems involving repeated percentage change
		5.11 Reverse percentage (working out th	e original amount) Calculate the original amount after a known percentage change
1: Basic Number			
	10	1.1 Solve real-life problems	Solve problems set in a real-life context
		1.2 Multiplication and division with dec	imals Multiple a decimal number by another decimal number
			Divide by a decimal number
		4.2 Anneximation of Coloriations	
		1.3 Approximation of Calculations	Fortimate before calculating
			Estimate before calculating
		1.4 Multiples, factors, prime numbers, p	powers and roots Find multiples and factors
			Idenitify prime factors
			Idenitiify square and triangular numbers
			Find square roots
			Identitify cubes and cube roots
		1.5 Prime Factors, LCM and HCF	Identify prime factors
			Identify the least common multiple of two numbersa
			Identify the highest common factor of two multiples
		1.6 Negative numbers	Multiply and divide positive and negative numbers

Week Commencing 12th December 2022 - Revision & Assessment

End of Autumn Term

Chapter	Time	Topic Break-Down	Learning Objectives
			(Students will be able to)
2: Fractions, ratio and			
proportion	11	2.1 One quantity as a fraction of another	Find one quantity as a fraction of another
		2.2 Adding, subtracting and calculating with fractions	Add and subtract fractions with different denominators
		2.3 Multiplying and dividing fractions	Multiple proper fractions and mixed numbers
			Divide by fractions
		2.4 Exactions on a calculator	Line a calculator to accurately achieve problems involving fractions
		2.4 Fractions on a calculator	Ose a calculator to accurately solve problems involving fractions
		2.5 Increasing and decreasing quantities by a percentage	Increase and decrease quantities by a percentage
		2.5 Increasing and decreasing quantities by a percentage	increase and decrease quantities by a percentage
		2.6 Expressing one quantity as a percentage of another	Work out percentage change
			Express one quantity as a percentage of another
3: Statistical Diagrams and			
averages	4	3.1 Statistical representation	Draw and interpret bar charts and pie charts
			Draw and interpret line graphs
		3.3 Scatter Diagrams	Draw, interpret and use scatter diagrams
		· · · ·	Draw and use a line of bets fit
3: Statistical Diagrams and			
averages	6	3.2 Statistical measures	Use averages to solve more complex problems
			Identify the advantages and disadvantages of each type of average and learn which
			one to use in different situations
			Work out and use the range of a set of data
			Calculate the mode, the median and the mean from a frequency table
			Identify the modal group
			Estimate the mean from a grouped frequency table
4: Number and sequences			
	4	4.1 Patterns in number	Recognise patterns in number sequences
		4.2 Number sequences	Constate convences riven the ath term
		4.2 Infinition sequences	Generate sequences, given the nth term
		4.2 Finding the oth term of a conjugate	Find the ath term of a convence
		4.5 Finding the first term of a sequence	Find the number of a sequence

Week Commencing 6th February - Revision & Assessment

Half Term

Chapter	Time	Topic Break-Down	Learning Objectives
			(Students will be able to)
4: Number and sequences			
	6	4.4 Special sequences	Recognise and continue some special number sequences such as square numbers
		4.5 Generate rules from given patterns	Find the nth term from practical problems involving sequences
		4.6 The nth term of a quadratic sequence	Generate the terms of a quadratic seqeunce from the nth term
		4.7 Find the nth term for quadratic sequences	Work out the nth term of a quadratic sequence
7: Transformations,			
constructions and Loci	16	7.1 Congruent triangles	Demonstrate that two triangles are congruent
		7.2 Rotational symmetry	Find the order of rotational symmetry for a 2D shape
			Recognise shapes with rotational symmetry
		7.3 Transformations	Translate, reflect, rotate and enlarge a 2D shape
		7.4 Combinbations of Transformations	Combine transformtions
		7.5 Bisectors	Construct the bisectors of lines and angles
			Construct angles of 60 and 90 degrees
		7.6 Defining a locus	Draw a locus for a given rule
		7.7 Loci problems	Solve practical problems using loci
		7.8 Plans and elavations	Construct and interpret plans and elevations of 3D shapes

Week Commencing 27th March - Revision & Assessment

End Of Spring Term

Chapter	Time		Topic Break-Down	Learning Objectives
			·	(Students will be able to)
8. Algebraic manipulation				
	13	8.1	Basic algebra	Recognise expressions, equations, formulae and identities
				Substitute into, manipulate and simplify algebraic expressions
		8.2	Factorisation	Factorise an algebraic expression
		8.3	Quadratic expansion	Expand two binomials to obtain a quadratic expression
		8.4	Expanding squares	Expand the square of a binomial
		8.5	More than two binomials	Expand more than two binomials
		8.6	Quadratic factorisation	Factorise a quadratic expression of the form "x2 + ax + b" into two linear brackets
		8.7	Factorising ax2 + ax + b	Factorise a quadratic expression of the form "ax2 + ax + b" into two linear brackets
		8.8	Changing the subject of a formula	Change the subject of a formula
			Week Commencing 15th May - Revision & E	nd of year exams
			Week Commencing 22nd May - Revision & E	ind of year exams
Half Term				

Chapter	Time	Topic Break-Down	Learning Objectives
			(Students will be able to)
9: Length, area and volume			
	14	9.1 Circumference and area of a circle	Calculate the circumfernce and area of a circle
		9.2 Area of a parallelogram	Calculate the area of a parellelogram
		9.3 Area of a trapezium	Calculate the area of a trapezium
		9.4 Sectors	Calculate the length of an arc
		· · · ·	Calculate the area and angle of a sector
		9.5 Volume of a prism	Calculate the volume of a prism
			÷
		9.6 Cyclinders	Calculate the volume and surface area of a cyclinder
		9.7 Volume of a pyramid	Calculate the volume of pyramids
		9.8 Cones	Calculate the volume and surface area of a cone
		9.9 Spheres	Calculate the volume and surface area of a sphere
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Week Commencing 10th July - Revision and Assessment

End of Summer Term