SUBJECT: Maths   Year:7

	Number	Algebra	Geometry	Data and probability
Excelling	● Can order decimals of any size ● Can subtract, add, multiply and divide any decimal ● Round to any number of decimal places ● Find the perimeter and area of composite shapes, including ones with missing measurements ● Find the factors of any number up to 100 and multiples of a number ● Can multiply and divide mixed numbers ● Can find the fraction of a quantity involving decimal answers ● Understands the equivalence of FDP and uses this to	● Can simplify expressions involving powers and negatives ● Can form a simple algebraic expression from a word problem ● Can expand single brackets and simplify the result when more than 1 is involved in the question ● Can factorise a linear expression by taking out whole numbers ● Can work out a term to term rule in a sequence involving decimals and negatives, can find missing terms of a sequence	● Find the perimeter and area of composite shapes involving triangles, rectangles and parallelograms including ones with missing measurements ● Can measure and draw acute, obtuse and reflex angles ● Can reflect a shape in a diagonal line	● Can calculate the mean and understand when it would be appropriate to use it ● Can draw and interpret a pie chart

	calculate a range of percentages			
Securing	● Understands place value and can order numbers to 2 decimal places ● Add and subtract decimals to 2dp and in the context of money ● Can round to 1 decimal place ● Find factors and multiples of numbers less than 20 ● Can convert between improper fractions and mixed numbers ● Can find a fraction of a quantity ● Can find % with and without a calculator	● Can simplify expression involving 2 variables ● Can expand a single bracket ● Can write a term to term rule for simple linear sequences	● Find the area and perimeter of rectangles and composite shapes with given measurements ● Find the area of a triangle and parallelogram ● Can measure and draw acute and obtuse angles ● Can reflect in a vertical and horizontal line	● Calculate the mean of a data set and understand what it tells us ● Can draw a bar chart and interpret a pie chart
Developing	● Can order number up 1000 ● Can add and subtract any 2 or 3 digit number	● Can simplify an expression involving 1 variable ● Can write the nest term in a linear	● Find the area and perimeter of a rectangle	● Calculate the mean of 6 numbers and less ● Can interpret information from a

	- Can round to the nearest 10,100 and whole number - Knows multiples of 2,3,4,5 and 10 - Can identify some equivalent fractions - Has methods for finding half or a quarter of a number - Can find 25, 50 and 75% of a number	sequence by adding or subtracting	- Can identify acute, obtuse and reflex angles - Recognises some 2D and 3D shapes - Can identify lines of symmetry	bar chart or pictogram
Emerging	- Can order number to 20 - Knows number bonds for 10 - Knows multiples of 2, 5 and 10 - Understand that a fraction is a part of a whole - Can half even numbers up to 20 - Can find 50% of numbers under 20	Can write the nest odd or even number in a sequence of numbers	- Find the area of a shape by counting squares - Can identify a right angle - Recognises some 2D shapes	Can read from a simple bar chart

SUBJECT: Maths   YEAR : 8

	Number	Algebra	Geometry	Data
Excelling	• Can find the HCF and LCM of more than two numbers • Add, subtract, divide and multiply mixed numbers • Convert units involved in area calculations • Can use multipliers for % increase, decrease and reverse % questions • Can use ratio in problem solving • Use significant figures to estimate a sum • Can use index rules involving several letters and numbers	• Can solve a range of equations involving brackets and unknowns on both sides • Simplify expressions that involve multiplication and division • Find the nth term of an increasing or decreasing linear sequence	• Construct triangles and quadrilaterals using compass and protractors • Can bisect a line and an angle • Can calculate angles on parallel lines • Can find the area of composite shapes involving circles, trapezium, parallelogram and triangles • Can find the volume and surface area of prisms	• Find the mean , mode, median and range and be aware of when to use each average • Draw a scattergraph and identify outliers • Understand correlation and use a line of best fit to make predictions
Securing	• Can prime factorise a number • Can use a venn diagram to find the HCF and LCM of two numbers	• Can solve linear equations that involve a simple bracket • Simplify expressions that involve multiplication	• Can construct triangles using compass and protractor • Can calculate missing angles in parallel lines	• Find the mean, mode and median from a data set • Read a range of statistical diagrams to get information • Draw a pie chart

	- Can add, subtract, divide and multiply fractions - Can use all 4 operations with negative numbers - Can convert standard measures - Can use a multiplier for % increase and decrease - Can round to a given number of significant figures	Find the nth term of a linear sequence	- Can find the area of a trapezium, parallelogram and triangle - Find the volume and surface area of a cuboid - Find the perimeter and area of a composite shape made of rectangles	Organise data into groups and understand the difference between discrete and continuous data
Developing	- Can prime factorise a number under 100 - Can list prime numbers below 20 - Understand index notation - Can find equivalent fractions and starts to add and subtract - Can find any % which is a multiple of 5 without a calculator	- Can solve two stage equations - Simplify expressions that involve addition and subtraction - Can describe a term to term rule for a linear sequence	- Can draw and measure angles accurately - Can find angles around a point, in a triangle, quadrilateral and a straight line - Can find the area of a triangle, rectangle and parallelogram - Can find the perimeter of a range of shapes	- Find the mean, mode and median from a simple data set - Read a pie chart to obtain information - Draw a bar chart - Organise data into categories using a tally chart

			● Find the volume of a cube or cuboid	
Emerging	● Can find 10%, 25% and 50% of a number up to 100 ● Can identify 2 fractions that are equivalent ● Can identify some square numbers ● Can round to the nearest 10	● Can find missing numbers in a simple addition or subtraction sum ● Can predict the next term in a simple linear sequence	● Can find the area by counting squares of an irregular shape ● Find the area and perimeter of a rectangle ● Find missing angles on a line and in a triangle ● Identify a range of 2D and 3D shapes	● Find the mode of a set of data ● Read information from a variety of charts including a bar chart and a line graph ● Tally discrete information

SUBJECT-Maths   YEAR- 9

	Number	Algebra	Geometry	Data and probability
Excelling	• Solve range of mathematical problems involving negative numbers • Understand index rules and work with a combination of several rules • Can apply fraction work to problem solving • Can use multipliers for reverse % and repeated % change • Can convert a recurring decimal into a fraction • Do calculations with numbers in standard form	• Plot a range of graphs in the form y=mx+ c and understand about gradient and y intercept. Plot and recognise quadratic graphs • Find an nth term for a linear sequence and quadratic sequence • Can expand up to 3 brackets • Form and solve a range of linear equations • Solve equations involving brackets and unknowns on both sides • Solve a range of inequalities and show a region on a graph that satisfies two or more inequalities • Form and solve a pair of simultaneous	• Solve problems involving angles on parallel lines • Find the volume and surface area of a range of prisms • Rotate, reflect, enlarge, and translate a shape and use a combination of transformations • Use trigonometry and Pythagoras to find missing sides and angles • Use a range of constructions to find regions	• Find the mean, mode, median of grouped data (continuous and discrete) • Draw a cumulative frequency curve and scatter graph • Find the arc length and area of a sector. Find missing dimensions if given the answer

		equations algebraically		
Securing	- Add, subtract, multiply and divide negative numbers - Know the 3 rules for indices - Add, subtract, multiply and divide mixed numbers - Use a multiplier for % increase and decrease - Can convert a fraction into a decimal by division - Convert a small or large number into standard	- Plot graphs in the form of y=mx+c - Find an nth term for a linear sequence and can produce a simple quadratic sequence given its nth term - Can expand single and double brackets - Solve a range of inequalities and show the region on a graph that satisfies a single inequality - Solve 2 simultaneous equations by drawing graphs	- Identify corresponding, alternate. Opposite and interior angles - Find the volume and surface area of cuboids - Find the volume of prisms - Rotate, reflect, enlarge, and translate a shape - Use Pythagoras to find a missing side - Bisect a line and an angle and construct triangles	- Find the mean of grouped discrete data - Draw a scatter graph and pie chart - Find the area and circumference of a circle
Developing	- Can work with negative number below 20 - Know a range of square number, cube numbers and their roots - Add and subtract mixed numbers.	- Plot co-ordinates in all 4 quadrants, plot graphs in the form x=a and y=b - Can expand a single bracket involving a letter or a number	- Understand the notation used for parallel lines - Find the area of rectangles, triangles, parallelograms, and trapezium	- Find the mean, mode, median and range of a data set - Can draw a bar chart and read from a pie chart - Can label the parts of a circle

		● Find the % of a number with and without a calculator ● Convert between fraction, decimal and % ● Write a large number in standard form	● Can describe term to term rules for a range of sequences ● Solve a simple two stage equation ● Solve a range of inequalities	● Reflect, rotate, and translate a shape ● Draw and measure angles accurately	
	Emerging	● Can recognise negative numbers in context such as temperature ● Can list some square and cube numbers ● Can convert between improper fractions and mixed numbers ● Understand the equivalence of %, fraction and decimal for 25%, 50% and 75% ● Understand place value for up to 2 decimal places ● Multiply a number by 10,100,1000	● Read and write co-ordinates ● Can predict the next term of a simple linear sequence, identify simple sequences such as odd and even numbers ● Expand a simple bracket with a number outside ● Solve a one stage equation ● Understand inequality signs	● Find the area and perimeter of a rectangle ● Understand line symmetry and rotational symmetry ● Recognise acute, obtuse and reflex angles	● Find the mode and range of data ● Can draw and read from a pictogram and a bar chart