Year 7 Term 1							
Chapter	Emerging	Developing	Secure	Excelling			
Whole numbers and decimals	Use place value and decimal notation in different contexts, including money.	•Round a number to the nearest 10, 100 or 1000.	•Multiply and divide by 10, 100 and 1000.	Add, subtract, multiply and divide negative numbers.			
(Number)	Compare and order whole numbers, negative numbers and decimals.	Use an estimate to check a result.	Add and subtract using mental, written and calculator methods.	Use appropriate mental and written methods to add and subtract decimals.			
	Write numbers in words and figures.	Use the correct order of operations.	Understand place value in decimal numbers.				
Measures perimeter and area	Measure lengths in cm and mm.	Calculate the perimeter of simple shapes.	Convert between metric units.	●Find the area of a trapezium.			
Measures, perimeter and area	Read and interpret scales in different	Calculate or estimate the area of a	●Find the perimeter and area of a	•Use and convert between metric and			
(Geometry and measures)	contexts, including time.	shape by counting squares.	rectangle and triangle.	imperial units of measure.			
(Ocometry and measures)	Classify 2D shapes by their properties.	•Select and use standard metric units of measure.	●Find the area of a parallelogram.	•Find the surface area and volume of a cuboid.			
Expressions and formulae	Use letters to represent unknown numbers.	Substitute whole numbers into expressions and formulae.	●Use a formula.	•Simplify expressions that involve brackets, powers and division.			
(Algebra)	Simplify algebraic expressions by collecting like terms.		●Write a formula.				
	•Use fractions to describe parts of a	•Simplify fractions and find equivalent		●Use fraction notation and simplify			
Fractions, decimals and percentages	whole, including improper fractions.	fractions.	Add & subtract fractions.	fractions.  • Change between fractions, decimals			
(Number)	<ul><li>Find unitary fractions of a quantity.</li><li>Convert improper fractions to mixed</li></ul>	●Find a fraction of a quantity. ●Express a proportion as a fraction, a	Calculate percentage increase.	& percentages.  • Find fractions & percentages of			
	numbers and vice versa.	decimal or a percentage.	●Find a percentage of a quantity.	amounts.			

Year 7 Term 2							
Chapter	Emerging	Developing	Secure	Excelling			
Angles and 2D shapes (Geometry and measures)	Classify triangles by their properties.	Use the sum of angles at a point, on a sraight line and in a triangle.	Use angle facts to work out unknown angles.	●Know facts about angles on parallel and intersecting lines.			
	Distinguish between acute, obtuse and reflex angles.	Measure and draw angles to the nearest degree and lines to the nearest mm.	Recognise and name the different types of quadrilateral.	•Know facts about angles in triangles and quadrilaterals.			
	Estimate angles and use a protractor to measure them.	Recognise and name the different types of triangle.	Draw shapes accurately using a ruler and protractor.	Recognise types of triangles, quadrilaterals and polygons			
Adding and subtracting	•Strengthen and extend mental methods of addition and subtraction.	●Do multiplication and division calculations using mental methods.	Evaluate expressions using the correct order of operations.	•Round whole numbers and decimals to a given degree of accuracy.			
(Number)	Use efficient written methods to add and subtract whole numbers.	<ul> <li>Do multiplication using a standard written method.</li> <li>Round numbers to the nearest 1000, 100, 10, integer or tenth.</li> </ul>	<ul> <li>Do short and long division using written methods.</li> <li>Use a calculator ot work out more complex expressions.</li> </ul>	Use mental and written methods of multiplication and division.			
	Plan how to collect and organise small sets of data from surveys and experiments.	Collect data and recognise a good questionnaire.	Construct and interpret statistical diagrams, including pictograms, bar charts, pie charts and line graphs.	Write questions which are clear, unbiased and easy to answer.			
Statistics (Statistics and probability)	Organise data using tally charts and frequency tables.	Calculate statistics for small sets of data, including the mode, mean, median and range.	Find the averages and range for raw data and data in frequency tables.	Collect discrete and continuous data in grouped frequency tables and find the modal class.			
	<ul> <li>Construct and understand different types of pictograms, bar charts and pie charts.</li> </ul>	●Compare data from lists or represented in diagrams.		●Compare sets of data.			
Transformations and symmetry	●Identify lines of symmetry in 2D shape.	Transform a shape by rotation about a point.	•Draw and describe enlargements that use positive whole number scle factors.	Draw and describe enlargements that use positive whole number, fractional and negative scale factors.			
(Geometry and measures)	•Transform a shape by reflection in a mirror line.	●Tessellate shapes.	Recognise and describe reflectional symmetry and rotational symmetry.	Draw and describe reflections, rotations and translations.			
	Transform a shape by translation and describe a translation.	symmetry and rotation symmetry.	Recognise and describe translations.	Make tessellations by reflecting, rotating and translating a shape.			
Equations	Understand and use inverse operations.	Construct and solve simple one step equations	Use inverse operations to solve two- step equations.	Solve equations with brackets and an unknown on both sides.			
(Algebra)	Use letters to represent unknown numbers.	Multiply and divide numbers and letters in algebra.	Solve equations involving fractions.	Write equations to describe different real-life situations then solve them.			
Factors and multiples	•Recognise square numbers up to 10 x 10 and their square roots.	●Find factors and multiples of a number.	•Use tests of divisibility to find factors and to test for prime numbers.	Write a whole number as the product of its prime factors.			
(Number)	Recognise prime numbers.	●Find the LCM and HCF of a pair of numbers.	Use factors and multiples to find the HCF and LCM of numbers.	●Use prime factors to find the HCF and LCM of two numbers.			

Year 7 Term 3								
Chapter	Emerging	Developing	Secure	Excelling				
Constructions and 3D shapes (Geometry and measures)	Recognise and name common 3D shapes.	Use a protractor to measure and draw angles.		Describe a locus of a moving point and draw it accurately.				
	Construct simple nets of 3D shapes.	Use a ruler and protractor to construct a triangle and quadrilateral.	12 311 shane made from centimetre	Construct angle bisectors and perpendicular bisectors.				
	●Know the parts of a circle.	Use isometric paper to draw 3D shapes.	and edges.	●Draw plans, elevations and nets of 3D solids.				
Sequences	•Find patterns in sequences of numbers.	Use negative numbers in a sequence.		•Find a rule to describe a sequence of numbers.				
(Algebra)	Describe a sequence using a rule to find the next term.	Generate sequences from patterns of shapes.	a rule.	●Use and find a rule for the nth term of a sequence.				
Multiplying and dividing (Number)	•Consolidate multiplication facts up to 12 x 12.	Multiply and divide whole numbers using mental and written methods.	Use a calculator for calculations, including indices and roots.	Multiply decimal numbers using the standard method.				
	●Multiply and divide by 10 and 100.	Use mental methods to multiply and divide decimal numbers.	ICAICHIAINE	Divide decimal numbers using written methods including short division.				
	Interpret the calculator display in different contexts, including money.	Use a calculator for the four operations with whole numbers and decimals up to 2dp		●Interpret the calculator display after doing a division, including units of time.				
Ratio and proportion (Ratio and proportion)	●Write and use ratios and proportions.	•Increase or decrease two quantities using direct proportion.	Use fractions, decimals and percentages to describe proportions.	●Divide a quantity into a given ratio.				
	•Solve arithmetic problems in context.	Use ratio to compare two quantities.	•Find the value of quantities that are directly proportional.	•Know how to find and use ratios and proportions in problems.				
	●Construct and interpret scale drawings.	Solve problems involving ratio and proportion.		•Find the outcome after a percentage increase or decrease.				
Probability (Statistics and probability)	●Understand and use the probability scale from 0 to 1.	Use equally likely outcomes to find a theoretical probability.	•Find probabilities of events which are equally likely to happen.	Know what 'mutually exclusive' events are and find their probabilities.				
	Use words to describe different probabilities.	Use an experiment to estimate an experimental probability.	●ldentify a set.	Compare results using theoretical and experimental probabilities.				
	●Know the meaning of words trial, outcome and event.	Describe probabilities using words, fractions, decimals and percentages.	Complete and interpret a Venn diagram.	●Understand and use Venn diagrams to find probabilities.				