

Assessment 1 Learning objectives	
NUMBER	To add and subtract negative numbers
	To multiply and divide negative numbers
	To be able to use the calculator efficiently
ALGEBRA	To use algebraic manipulation
	To use the concepts and vocabulary of expressions
	To substitute numbers into expressions and formulae
	To solve equations involving one operation
	To solve equations involving two operations
	To draw graphs using a table
	To find the gradient and the y-intercept of a line
	To find the equation of a line in form $y=mx+c$
	To draw linear graph of $y=mx+c$ using m and c
STATISTICS	To calculate and use the mean of a set of data
	To calculate and use the mode of a set of data
	To calculate and use the median of a set of data
	To calculate and interpret the range of a set of data
	To compare two sets of data using averages and range
	To construct and interpret scatter graphs
Assessment 2 Learning objectives	
GEOMETRY	To be able to reflect a shape
	To be able to translate a shape
	To be able to rotate a shape
	To be able to enlarge a shape by a positive scale factor
	To describe transformations
	To combine transformations
NUMBER	To use the rules of indices for positive integer powers
	To use vocabulary of prime numbers, factors, and multiples
	To express any integer as a product of its prime factors
	To know and use Highest Common Factor (HCF) using Venn Diagrams
	To know and use Lowest Common Multiple (LCM) using Venn Diagrams
GEOMETRY	To calculate the length of the hypotenuse in a right-angled triangle
	To calculate the length of a shorter side in a right-angled triangle
	To use Pythagoras' theorem to solve practical problems
STATS	To construct and interpret scatter graphs

Assessment 3 Learning objectives	
NUMBER	To write one quantity as a percentage of another
	To use a multiplier to calculate a percentage change
	To be able to use the calculator efficiently
	To work out a change in value as a percentage increase or decrease
ALGEBRA	To solve equations with the variable on both sides
	To use algebra to set up and solve equations
	To solve equations involving two operations
GEOMETRY	To identify congruent shapes
	To be able to calculate the perimeter and the area of the rectangles, trapezia, and parallelograms
	To recognise and name the parts of a circle
	To calculate the circumference of a circle
	To calculate the area of a circle
	To calculate the perimeter and area of the compound shapes with circles
STATISTICS	To construct and interpret stem-and-leaf diagrams
	To calculate the averages and range from stem-and-leaf diagrams
	To complete and interpret the frequency trees
NUMBER	To use the ratio to compare lengths
	To be able to read and use map scales efficiently
	To use and apply skills and knowledge of ratio in a real-life context
ALGEBRA	To expand double brackets
	To factorise expressions
	To use letters for numbers
	To be able to draw curved graphs
GEOMETRY	To calculate the total surface area and the volume of a cuboid
	To calculate the total surface area and the volume of a prism
	To calculate the total surface area and the volume of a cylinder
	To use and interpret maps and scale drawings
	To use bearings to specify the direction
STATISTICS	To construct graphs and diagrams to represent data
	To interpret charts
	To draw a pie chart
	To interpret pie charts
Term 6 Learning objectives	
ALGEBRA	To use graphs in a real-life context
	To draw quadratic, cubic, reciprocal graphs
	To rearrange formulae
	To use formulae from mathematics and different subjects
GEOMETRY	To draw 3-D objects on isometric paper
	To visualize 2-D representation of 3-D objects - plans and elevations
NUMBER	To identify upper and lower bounds of accuracy
	Identify upper and lower bounds of simple calculation