Maths (Year 8)														
Term 1						Term 2				Term 3				
Strands	Numerical and Proportional Reasoning	Algebra	Shape, Space and Measure	Statistics	Strands	Numerical and Proportional Reasoning	Algebra	Shape, Space and Measure	Statistics	Strands	Numerical and Proportional Reasoning	Algebra	Shape, Space and Measure	Statistics
		I can write an algebraic expression in its simplest form	I can convert and use different measurements			I can use the laws of indicies to help me simplify expressions	I can draw and interpret a straight line graph	I can construct an accurate triangle			I can understand the meaning of a ratio as a fraction	I can use the equation of a sequence	I can visualise and identify shapes in 3D	
	I can use the order of operations effectively	I can expand and factorise linear expresions	I can find the area and perimeter of different 2D shapes			I can read and write in standard form	I can draw and interpret quadratic and cubic graphs	I can construct bisectors using a compass		o l	I can share an amount in a given ratio	I can work out the equation of a sequence	I can work out the surface area of shapes	
	I can find the HCF and LCM of a set of numbers	I can create and use a formulae effectively			atements		Interpreting real life graphs	I can use Pythagoras' theorem to find the missing sides on a right angle triangle		atement		I can work with iterative sequences	I can work out the volume of a shape	
	I can complete calculations with decimals				an Sta		I can construct an equation			I Can St			I can use trigonometry on right angled triangles	nt
f	I can make calculations with fractions				20		I can solve algebraic equations							
	I can convert between fractions and decimals I can increase and decrease						I can understand and solve an inequality							
	an amount by a percentage													
М	lastery Statements	Emerging	Developing	Mastering I can state the upper and		Mastery Statements	Emerging	Developing	Mastering		Mastery Statements	Emerging	Developing	Mastering
I can round numbers effectively to help me estimate		I can round to the nearest power of 10 and a given decimal place	I can round to a given decimal place or significant figure and use this to help me estimate values	lower hound for a number that			I can use the multiplication, division laws of indices	I can use the laws of indices to simplify complex fractional expressions	I can express a^n as a power of b where a is a power of b		inderstand the meaning of a s a fraction	I can express a ratio a:b as a fraction of a or b as a whole	I can represent the ratio of two quantities in direct proportion as an equation	I can use ratio equations to solve problems in context
I can use the order of operations effectively		I can apply the order of operations to help me solve simple equations	I can apply the order of operations to helps me solve more complex equations involving brackets and indices	I can insert brackets into an equation to correct the order of operations and get the right answer	I can re	ead and write in standard form	I can read and write large numbers in standard form	I can read and write small numbers in standard form	I can complete operations between numbers written in standard form	I can share an amount in a given ratio		I can interpret a ratio in a way that allows the correct proportion of an amount to be calculated	that allows an amount to be	I can share an amount when given the difference between a ratio of two or three
I can find the HCF and LCM of a set o numbers		factors of a number	I can write a number as a product of its prime factors	numbers to find their HCF and LCM gra		Iraw and interpret a straight line	I can draw a straight line graph using a table of values	I can draw and interpret a straight line graph from a linear equation	I can find a parallel and perpendicular line of a linear equation	I can use the equation of a sequence		I can write the first few terms of a sequence when given the nth term rule		I can decide whether a number is in a sequence or not
can cor decimals	mplete calculations with		I can effectively multiply and divide numbers with decimals to help me solve problems	I can apply the order of operations to problems involving operations with decimals		fraw and interpret quadratic and graphs	I can complete a table for a quadratic graph	I can plot and draw a quadratic graph	I can interpret a quadratic equation	I can v seque	vork out the equation of a	I can work out the term to term rule of a sequence	I can work out the position to term rule of a sequence	I can identify and name different types of sequences
can ma	ike calculations with fractions	I can add and subtract fractions with different denominators	I can multiply and divide fractions	I can complete a calculation with improper fractions and mixed numbers	I can c	construct an equation	I can write a linear equations to help me solve problems	I can construct quadratic equations involving angles and 2D shape	I can construct a simultaneous equation	I can v	vork with iterative sequences	I can understand the notation in an iterative sequence	I can generate the next term in a sequence given a description	I can generate the next term a sequence given a recurrence relation
can cor decimals		I can convert between fractions and decimals	I can convert between fractions and decimals giving my answer as a recurring decimal	I can write a recurring decimal as a fraction	I can s	olve algebraic equations	I can solve linear equations	I can solve equations with unknowns on both sides	I can solve simultaneous equations by elimination	I can v 3D	isualise and identify shapes in	I can identify a face, edge and vertex on a 3D shape	I can identify a shape from it's net	I can draw the plan and elevations of a 3D shape
	rease and decrease an by a percentage	I can work out a percentage of an amount	I can increase and decrease an amount by a percentage	I can work out repeated percentage changes	I can u inequa		I can draw a diagram to show an inequality	I can solve an inequality and state the solution on a number line	I can solve a pair of inequalities and represent their joint solution on a number line	I can v shape:	work out the surface area of s	I can work out the surface area from a net	I can work out the surface area of prisms	I can work out the surface area of shapes with a curved surface
	ite an algebraic expression in est form		I can simplify an expression involving basic multiplication	I can simplify algebraic expressions by cancelling	I can c	construct an accurate triangle	I can construct a triangle using a protractor and ruler	I can construct a triangle using a compass and a ruler	I can identify what makes a triangle unique	I can v	vork out the volume of a shape	I can work out the volume of a cuboid	I can work out the volume of a prism	I can work out the volume of shape with a curved surface
can expexio	pand and factorise linear	I can expand a linear expression to remove the brackets	I can factorise a linear expression	I can expand double brackets to create quadratic expressions	I can c	construct bisectors using a uses	I can bisect a straight line and angle	I can describe loci	I can combine loci to solve problems	I can u triangle	ise trigonometry on right angled	I can identify which trigonometric ratio to use when finding sides and angles in right angled triangles	I can use trigonometry to work out a missing side on a right angled triangle	I can use trigonometry to wor out the missing angle of a sid
can cre		I can use a formula in context by substituting	problem	I can change the subject of a formula			I can use Pythagoras' theorem to find the hypotenuse of a right angles triangle	I can use Pythagoras' theorem to find the smaller sides of a right angled triangle	I can use Pythagoras' theorem to calculate the distance between two points on a graph					
can cor measure		I can convert between different metric measurements	I can convert between metric and imperial measurements and vice versa	I can recognise and use compound measurements										
	d the area and perimeter of 2D shapes	I can find the area and perimeter of a rectangle and triangle	I can find the area and perimeter of a parallelogram and trapezium	I can find the area and circumference of a circle										