Year 7				
Term 2				
Learning Objective		**Expressions, functions and formulae**	**Decimals and measures**	**Fractions and percentages**
Learning Outcome		**Assessment 4 -** times written test (1 hour)	**Assessment 5** - timed written test (1 hour)	**Assessment 6 -** times written test (1 hour)
Descriptor	**Exceptional**	*Construct expressions using 4 operations *Substitute into expressions involving powers *Derive more difficult formulae from a description *Factorise an algebraic expression into a single bracket	*Use column multiplication with decimals *Convert between fractions, decimal and percentages *Apply decimal skills to a variety of contexts *Divide integers and decimals by other decimals using the equivalence of divisions	*Add and subtract fractions and mixed numbers with different denominators *Convert fluently between fractions, decimals and percentages *Multiply fractions by integers and other fractions *Divide an integer by a fraction *Divide a fraction by a fraction *Select the appropriate operation for a worded problem involving fractions
	Good	*Use arithmetic operations with algebra *Write expressions from word descriptions using addition, subtraction and multiplication *Write expressions to represent function machines *Expand expressions involving single brackets	*Solve perimeter problems *Work out the area of compound shapes made from rectangles *Round numbers to 2 or more decimal places *Order decimals with up to 3 decimal places	*Simplify fractions *Order fractions that do not have a common denominator *Calculate a non-unitary fraction of a quantity *Convert decimals to percentages *Write a quantity as a percentage
	Developing	*Write expressions and simple formulae given a description in words *Substitute positive integers into simple formulae written in letter symbols *Simplify expressions by collecting like terms	*Use short division to divide decimal numbers by one-digit integers *Convert metric units of length, mass and volume *Order decimals with up to 2 decimal places *Round to one decimal place *Use place value to multiply double digit integers by double digit decimals *Work out the perimeter of shapes *Work out the area of rectangles	*Convert between mixed and improper fractions *Compare unitary fractions with different denominators *Find and identify equivalent fractions *Represent equivalent fractions using a bar model *Calculate a unitary fraction of a quantity *Represent a fraction of a quantity using a bar model *Change a percentage to a fraction *Change a percentage to a decimal *Calculate basic percentages of a quantity
	Foundation	*Find outputs of simple functions *Describe simple functions using words or symbols *Substitute positive integers into simple formulae written in words	*Read scales *Choose suitable units of measure *Write numbers in words and figures *Write a decimal shown by a diagram *Name the place value of tenths and hundredths *Convert metric units of length *Draw lines to the nearest mm *Add and subtract decimals *Round to the nearest 100, 10 and integer *Use place value to multiply double decimal numbers by a single digit integer	*Write the fraction of a shape that is shaded *Represent a fraction on a bar model *Order fractions with a common denominator *Know the number of halves/ thirds/ quarters etc in one whole *Add and subtract fractions with a common denominator *Write a percentage from a shaded 100 square grid