		Year 8	
		Term 3	
Learning Objective		**Decimals and ratio**	**Fractions and percentages**
Learning Outcome		**Assessment 3 -** times written test (1 hour)	**Assessment 2** - timed written test (1 hour)
Descriptor	**Exceptional**	*Multiply triple digit decimals *Divide decimals using equivalent division *Apply decimal and ratio skills to worded problem solving questions *Express a ratio as a unit ratio	*Convert fluently between fractions, decimals and percentages *Divide an integer by a fraction *Divide a fraction by a fraction *Select the appropriate operation for each step of a multi-stage worded problem
	Good	*Multiply a double digit decimal by a single or double digit decimal using knowledge of place value *Apply decimal multiplication to calculating the area of rectangles, parallelograms and triangles *Share a quantity into a given ratio	*Multiply fractions by integers and other fractions *Order fractions that do not have a common denominator *Solve multi-step fraction problems, using bar modelling to justify solutions
	Developing	*Multiply an integer by a decimal using knowledge of place value *Round to a given decimal place *Order decimals *Simplify a ratio to its lowest terms	*Add and subtract fractions and mixed numbers with different denominators *Calculate a non-unitary fraction of a quantity *Convert between mixed and improper fractions *Compare fractions by finding a common denominator *Calculate basic percentages of a quantity *Simplify fractions to their lowest terms
	Foundation	*Add and subtract decimals using the column method *Multiply and divide by 10, 100 and 1000 using your knowledge of place value *Round decimals to the nearest whole number	*Find and identify equivalent fractions *Represent equivalent fractions using a bar model *Represent a fraction of a quantity using a bar model *Change a percentage to a fraction *Change a percentage to a decimal *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