

Subject Progression Statement

Subject: Maths

Year: 7

Term: Spring



Assessment Areas	Mastery Steps		
	Foundation	Secure	Mastery
Number Skills	<ul style="list-style-type: none"> To work with equivalent fractions including simplifying and ordering. Convert between mixed numbers and improper fractions add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply fractions and mixed numbers by whole numbers read, write, order and compare numbers with up to three decimal places convert between fractions, decimals and percentages. solve problems involving number up to three decimal places 	<ul style="list-style-type: none"> express one quantity as a fraction of another express one quantity as a percentage of another apply the four operations to simple fractions and mixed numbers interpret percentages and percentage changes as a fraction or a decimal compare two quantities using percentages solve problems involving percentage change, including percentage increase/decrease 	<ul style="list-style-type: none"> interpret fractions and percentages as operators work with percentages greater than 100% solve problems involving percentage change, including original value problems, and simple interest. calculate exactly with fractions To be able to change recurring decimals to fractions. To be able to change a fraction to a recurring decimal.
Algebra	<ul style="list-style-type: none"> Use simple formulae Convert between miles and kilometres Generate and describe number sequences 	<ul style="list-style-type: none"> understand and use the vocabulary of expressions, equations, formulae and terms use and interpret algebraic notation simplify algebraic expressions by collecting like terms and multiplying a single term over a bracket substitute numerical values into formulae and expressions generate terms of a sequence from a term-to-term rule 	<ul style="list-style-type: none"> generate terms of a sequence from either a term-to-term or a position-to-term rule find expressions to calculate the nth term of linear sequences solve linear equations with the unknown on both sides of the equation find approximate solutions to linear equations using a graph
Shape, space and measures	<ul style="list-style-type: none"> Estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) identify angles at a point and on a straight line convert between different units of metric measure understand and use approximate equivalences between metric units and common imperial units use all four operations to solve problems involving measure compare and classify shapes based on their properties find unknown angles in any triangles, quadrilaterals, and regular polygons illustrate and name parts of circles convert between measurements of length, mass, volume and time 	<ul style="list-style-type: none"> identify properties of the faces, surfaces, edges and vertices of 3D shapes apply the properties and definitions of types of quadrilaterals, use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate change freely between related standard units measure line segments and angles in geometric figures apply the properties of angles at a point, on a straight line and vertically opposite angles to more complex problems 	<ul style="list-style-type: none"> understand and use alternate and corresponding angles on parallel lines be able to find external and internal angles of polygons. be able to use all angle facts to solve more complex problems involving parallel lines and angles in polygons. use compound units (such as speed, rates of pay, unit pricing) change freely between compound units (e.g. speed, rates of pay, prices) in numerical contexts
Ratio and Proportion	<ul style="list-style-type: none"> solve problems involving the relative sizes of two quantities solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 	<ul style="list-style-type: none"> use ratio notation, including reduction to simplest form divide a given quantity into two parts using ratio 	<ul style="list-style-type: none"> express the division of a quantity into two parts as a ratio; work with fractions in ratio problems understand and use proportion as equality of ratios express a multiplicative relationship between two quantities as a ratio or a fraction relate ratios to linear functions

