

## NRC KS3: Maths Learning Plan - Extension

	AUTUMN 1	SPRING 1	SUMMER 1
<b>LEVEL 6</b>	<p><b>Numeracy</b> Recap: -addition/subtraction/multiplication &amp; division - negative numbers</p> <p><b>Fractions</b> Add and subtract fractions with different denominators Multiply and divide integer by a fraction Fraction/Decimals/Percentages</p> <p><b>Percentages</b> Calculate percentages Percentage increase and decrease</p>	<p><b>Algebra</b> Equations: formulate and solve with integer co-efficients Trial and Improvement Plot graphs of linear functions Recognise <math>y=mx+c</math> Construct and interpret real life graphs</p>	<p><b>Shape Space and Measure</b> Area of a triangle and parallelogram Volume and surface area of cuboids Circles: circumference and area Congruent shapes Enlargement: 2-D shapes, centre of enlargement, positive whole number scale factor</p>
	AUTUMN 2	SPRING 2	SUMMER 2
<b>LEVEL 6</b>	<p><b>Ratio and Proportion</b> Divide a quantity by a given ratio Solve problems using ratio and direct proportion Use proportion reasoning to solve a problem</p> <p><b>Algebra</b> Sequences: term to term, position to term, nth term</p>	<p><b>Shape Space and Measure</b> Classify quadrilaterals using geometric properties Constructions using a compass Solve geometrical problems using properties of angles, parallel and intersecting lines, triangles and other polygons Alternate and corresponding angles Proof of angles in a triangle and rectangle</p>	<p><b>Data</b> Design a survey/experiment Construct and modify a pie chart, bar graph, time graph and scatter graph Interpreting results of a survey</p> <p><b>Probability</b> Mutually Exclusive outcomes and events</p>