

Elements Curriculum Plan
Subject: Mathematics (Functional Skills Level 1 and Level 2)

Building Block 6a ≈ KS4 Functional Skills Pathway Level 1 Level 2			
Half-Term	Topic/Content	Skills	Personal Development
Autumn 1	Place Value and Rounding	<ul style="list-style-type: none"> • Read and write numbers up to 1 000 000 • Order and compare numbers up to 1 000 000 • Recognise negative numbers (especially in context temperature) • Order and compare any size positive and negative number • Approximate whole numbers by rounding • Approximate decimals by rounding to a whole number, 10, 100, 1000 • Approximate a decimal number by rounding to or two decimal places • Round decimals when in context – practical problems 	Communication Problem Solving Life Skills Staying safe
	Number Skills	<ul style="list-style-type: none"> • Add and subtract using three digit whole numbers • Multiply and divide whole numbers by 10, 100, 1000 • Multiply 2 digit whole numbers by single and double digit whole numbers • Know multiplication tables up to 12 x 12 • Calculate square numbers and their square roots.# Divide 3 digit whole numbers by single and double digit whole numbers 	Communication Problem Solving Life Skills Staying safe
	Order of Operations	<ul style="list-style-type: none"> • Solve Problems involving positive numbers • Use BODMAS/BIDMAS to solve multi step calculations • Use BODMAS where indices are used. • 	Communication Problem Solving Life Skills
	Decimals	<ul style="list-style-type: none"> • Add, subtract, divide and multiply decimals up to two decimal places • Order, approximate and compare decimals 	Communication Problem Solving Life Skills Staying safe

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		<ul style="list-style-type: none"> • Add, subtract, multiply and divide decimals up to 3 decimal places 	
Assessment			
Autumn 2	Fractions	<ul style="list-style-type: none"> • Simplify fractions to find equivalent forms • Find parts of whole number quantities or measurements $\frac{2}{3}, \frac{3}{4}$ • Read, write and compare mixed fractions • Express a number as a fraction of another • Order, add, subtract and compare using proper and improper and mixed fractions 	Communication Problem Solving Life Skills
	Ratio	<ul style="list-style-type: none"> • Understand the concept of ratio and the associated notation • Calculate simple ratio • Use directly proportional relationships to calculate quantities • Use inversely proportional relationships to calculate quantities 	Communication Problem Solving Life Skills
	Percentages	<ul style="list-style-type: none"> • Calculate simple percentages 10%, 1% , 50% , 25% • Calculate simple percentage increases and decreases in multiples of 5%, with and without a calculator • Express one number as a percentage of another • Calculate percentage change, and original value after percentage change(reverse percentage) • Calculate compound interest 	Communication Problem Solving Life Skills Staying safe
	Convert between FDP	<ul style="list-style-type: none"> • Recognise equivalence between common fractions decimals and percentages • Calculate equivalences between common fractions, decimals and percentages with and without a calculator • Identify equivalences between fractions, decimals and percentages 	Communication Problem Solving

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	Time and timetables	<ul style="list-style-type: none"> • Read and measure accurately and use timetables • Calculate time using familiar contexts • Calculate, measure and record time in complex contexts 	Communication Problem Solving Life Skills Staying safe
Assessment			
Spring 1	Formula and substitution	<ul style="list-style-type: none"> • Form word expressions from simple expression in symbols. • Evaluate simple expressions and formulae • Translate simple word problems into symbols and numbers, including speed, distance time. • Evaluate expressions • Make substitutions in given formulae in words and symbols • Calculate using compound measures such as Speed distance time, density mass volume and rates of pay 	Communication Problem Solving Life Skills
	Probability	<ul style="list-style-type: none"> • Use vocabulary of probability • Understand the probability scale • Express the probability of an event using fractions and between 0 and 1 • Identify the range of possible outcomes of combined events • Record events in two way tables and other diagrams, ((Venn diagrams and probability trees). • Express probabilities as fractions, decimals and percentages 	Communication Problem Solving Life Skills Staying safe Self -Awareness
	Averages	<ul style="list-style-type: none"> • Calculate range and mean • Make statements about Mean and range • Calculate the Mean, median, mode and range and make statements about these • Calculate an estimate of the mean 	Communication Problem Solving Life Skills Staying safe

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	Graphs and Charts	<ul style="list-style-type: none"> • Collect, organise and represent discrete data , in tables, diagrams, charts, line graphs, Bar Charts and pie charts • Include scatter graphs and correlation and recognise positive and negative correlations. • 	Communication Problem Solving Life Skills Staying safe
Assessment			
Spring 2	Conversions	<ul style="list-style-type: none"> • Convert between units of length, weight, capacity, money and time in the same • Convert metric and imperial units of length, weight and capacity, using conversion factor and conversion graphs 	Communication Problem Solving Life Skills
	2D and 3D Shapes (including plans and elevations)	<ul style="list-style-type: none"> • Draw 2D shapes • Understand line symmetry • Interpret plans, elevations and nets of simple 2D shapes • Understand 2D representations of 3D objects (nets) • Draw 3D shapes to include plans and elevations • Use co-ordinates in 2D, positive and negative to specify positions of points 	Communication Problem Solving
	Area, Perimeter and Volume	<ul style="list-style-type: none"> • Work out the perimeter, are of simple shapes including compound area using rectangular shapes • Calculate volumes of cubes and cuboids • Calculate perimeters and areas of shapes including triangles, circles and compound shapes including non-rectangular shapes • Calculate the volume of prisms • Use formulae to find surface areas of 3D shapes (with formula) 	Communication Problem Solving Life Skills
	Angles	<ul style="list-style-type: none"> • Use angles when describing position and direction 	Communication

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		<ul style="list-style-type: none"> • Measure angles and use angle descriptors • Use angle facts • Points on a compass and bearings 	Problem Solving Life Skills Staying safe Teamwork
Assessment			
Summer 1	Scale Drawings	<ul style="list-style-type: none"> • Recognise and make use of simple scales on maps and drawings • Calculate dimensions from drawings and simple shapes (such as 1cm-1m) • Use co-ordinates in 2D positive and negative to specify positions of points. 	Communication Problem Solving Life Skills Staying Safe Self awareness
	Revision and Assessment	<ul style="list-style-type: none"> • Revise and prepare for assessment using a variety of revision techniques 	Self-motivation Communication Problem Solving Life Skills Staying Safe Self awareness Teamwork
Assessment			
Summer 2	Review and revision project	Review and revise areas from throughout the year apply skills to an investigation.	Communication Problem Solving Life Skills Self Motivation Self awareness
Assessment			

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Rationale –

BB3-5

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BB6ab

As above, plus:

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