

# Moor House School & College Curriculum Map

YEAR GROUP/PATHWAY: Functional Skills Level 2		SUBJECT AREA: Mathematics			
Autumn 1	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
Knowledge	Baselines	Word Problems	Number Skills	Decimals	Fractions
Skills		Use the RUCCS system for word problems: Read, Underling, Circle, Cross and Solve.  Identify operations words to add, take away, multiply and divide.	Read, write, order and compare positive and negative numbers of any size  Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation  Follow the order of precedence of operators, including indices	Order, approximate and compare decimals  Add, subtract, multiply and divide decimals up to three decimal places  Identify and know the equivalence between fractions, decimals and percentages	Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers  Express one number as a fraction of another
Vocabulary		Add, take away, multiply, divide, and, altogether, total, sum, share, more, less, each, difference, how many/ much more?	Positive, negative, compare, units, tens, hundreds, thousands, millions, estimation, approximation, check, opposite/ inverse, bigger, smaller, brackets, indices	Add, take away, multiply, divide, decimal places, brackets, indices, equivalence, fractions, percentages, decimals, order, approximate, compare	Add, take away, order, compare, fractions, improper fractions, mixed numbers, convert, bigger, smaller, add, multiply, numerator, denominator
Autumn 2	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
Knowledge	Percentages	Percentages	Ratio and Proportion	Units	Baselines/ Sitting Exams
Skills	Calculate percentage change (any size increase and decrease), and original value after percentage change  Work out percentages of amounts and express one amount as a percentage of another	Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgeting	Understand and calculate using ratios, direct proportion and inverse proportion	Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph	

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Vocabulary	Percentage, percentage increase/ decrease, original, add, take away, multiply,	Interest, compound interest, percentage increase/ decrease, add, take away, discounts, tax	Ratios, direct proportion, inverse proportion, divide, multiply, every, each, per	Metric, Imperial, units, length, weight, capacity, m, mm, cm, km, L, ml, g, kg, divide, multiply, ratio, convert, conversion graph	
<b>Spring 1</b>	<b>Topic 1</b>	<b>Topic 2</b>	<b>Topic 3</b>	<b>Topic 4</b>	<b>Topic 5</b>
Knowledge	Data/ Graphs	Shapes	Coordinates	Scale Drawings	Perimeter and Area
Skills	Draw and interpret scatter diagrams and recognise positive and negative correlation	Understand and use common 2-D representations of 3-D objects  Draw 3-D shapes to include plans and elevations  Calculate values of angles and/or coordinates with 2-D and 3-D shapes	Use coordinates in 2-D, positive and negative, to specify the positions of points	Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements	Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)
Vocabulary	Draw, scatter diagram, correlation, positive, negative, strong, weak, line of best fit, estimate	2-D/ 3-D shapes, plans, elevations, front, side, angles, coordinates	Coordinates, 2-D shapes, positive, negative	Scale drawings, key, units, multiply, divide, ratio	Perimeter, area, square, squared 2-D shapes, triangles, circles, rectangles, composite shapes, circumference, units, horizontal, vertical, add, radius, takeaway, multiply, divide, $\pi$ , diameter, length, width, base, height
<b>Spring 2</b>	<b>Topic 1</b>	<b>Topic 2</b>	<b>Topic 3</b>	<b>Topic 4</b>	<b>Topic 5</b>
Knowledge	Perimeter and Area (Continued)	Formula	Volume and Surface Area	Volume and Surface Area	Baselines/ Sitting Exams
Skills	Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes	Evaluate expressions and make substitutions in given formulae in words and symbols	Use formulae to find volumes and surface areas of 3-D shapes including cylinders (formulae to be given for 3-D shapes other than cylinders)	Use formulae to find volumes and surface areas of 3-D shapes including cylinders (formulae to be given for 3-D shapes other than cylinders)	

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	(formulae given except for triangles and circles)				
Vocabulary	Perimeter, area, square, squared 2-D shapes, triangles, circles, rectangles, composite shapes, circumference, units, horizontal, vertical, add, radius, takeaway, multiply, divide, $\pi$ , diameter, length, width, base, height	Evaluate, formula, expressions, substitutions, brackets, indices, add, take away, multiply, divide	Volume, formula, surface area, 3-D shapes, cubed, square cube, cylinders, prisms, cuboid, square based pyramid, net, units	Volume, formula, surface area, 3-D shapes, cubed, cube cylinders, prisms, cuboid, square based pyramid, net, units	
<b>Summer 1</b>	<b>Topic 1</b>	<b>Topic 2</b>	<b>Topic 3</b>	<b>Topic 4</b>	<b>Topic 5</b>
Knowledge	Compound Measures	Probability	Averages	Averages (Continued)	Revision/ Practice/ Past Paper/ Exam Questions/ Sitting Exams
Skills	Calculate using compound measures including speed, density and rates of pay	Work out the probability of combined events including the use of diagrams and tables, including two-way tables  Express probabilities as fractions, decimals and percentages	Calculate the median and mode of a set of quantities  Use the mean, median, mode and range to compare two sets of data	Estimate the mean of a grouped frequency distribution from discrete data	
Vocabulary	Substitute, formula, speed, distance, time, density, volume, mass, rates of pay, cube, units	Probability, tree diagrams, tables, two-way tables, fractions, decimals, percentages, and, or, multiply, divide	Averages, median, mode, mean, range, data, compare, add, divide	Averages, mean, estimate, grouped data, frequency, midpoint, add, divide	
<b>Summer 2</b>	<b>Topic 1</b>	<b>Topic 2</b>	<b>Topic 3</b>	<b>Topic 4</b>	<b>Topic 5</b>
Knowledge	Revision/ Practice/ Past Paper/ Exam Questions/ Sitting Exams	Revision/ Practice/ Past Paper/ Exam Questions/ Sitting Exams	Fun Maths	Enhancement/ Innovation Week	
Skills					

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Vocabulary					
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