Mathematics Curriculum Plan Overview
Year 9

Entry Level Maths (EL1, EL2 & EL3)				
Sample assessments: https://passfunctionalskills.co.uk/functional-skills-maths-entry-level-1-2-3/edexcel-functional-skills-maths-entry-level-1-2-3-past-papers/				
Term	**Topic**	**Learning**	**How can parents' best support**	**Key Vocab**
Autumn 1	**Basic number - four operations** **Representing and interpreting data** **Basic fractions**	**Basic number** - adding and subtracting. Multiplying and dividing. **Data** - Drawing bar charts and line graphs. Reading graphs to pull out key information. Comparing data and checking assumptions. column A is 62 more than column B, are they right? Drawing a table and completing a frequency table. **Fractions** - Fractions of amounts. Savings and discounts.	Practise both mental and written methods of calculations strategies for Addition, Subtraction, Multiplication and division methods. Practise times tables. Reading charts and graphs and giving statements. "I can see that…" There are… more than…" Talk about charts and the information shown - how are they useful. Fractions of a meal, ingredients, items on offer. Calculate fractions of amounts. e.g. one half of 30, a quarter of 200ml, a fifth off £250. Discuss fractions being equal parts of whole amounts. https://www.mathgames.com/	Add Sum Total Calculate Subtract Takeaway Minus Difference. Compare Read Find Interpret Draw Plot Fraction Share Divide
Assessment: <u>Entry Level 10 minute quizzes</u>				
Autumn 2	**Sequences** **Rounding and estimation** **Positional language** **Coordinates**	**Sequences** - Finding a pattern and completing a sequence. Whole numbers and decimals sequences. **Rounding and estimation** - Rounding to the nearest ten of up to 3 digit numbers **Positional language** - Directions (Left, right, forward, back, turn, stop) **Coordinates** - Reading coordinates on a basic graph. Plotting basic coordinates on a graph.	Practice continuing a pattern. 11, 22, 33, 44… 12, 24, 36… 1.25m, 1.5m, 1.75m, 2m… Practice rounding to the nearest 10. Play rounding games online https://mathsframe.co.uk/en/resources/resource/573/Birds-v-Robots-Maths-Battle Positional language can be used when going out on every day activities. Play games using positional language. Practice coordinates using online games https://mathsframe.co.uk/en/resources/resource/469/Coordinates-Alien-Attack https://www.mathgames.com/	Pattern Increase Decrease Sequence Round Nearest Estimate Calculate Up Down Left Right Straight ahead Coordinates Plot Draw X axis Y axis
Assessment: <u>Entry Level Mock Assessment</u>				
Spring 1	**Basic number - four operations** **Shapes and shape properties** **Basic decimal** **Measures Time**	**Basic number** - adding and subtracting. Multiplying and dividing. **Shapes and shape properties** - Common shapes, right angles, lines of symmetry. **Basic decimals** - Adding and subtracting decimal numbers. **Measures** - Reading a scale and rounding to the nearest interval e.g. cm or ml. **Time** - key time facts (date,	Practise written methods for basic arithmetic. Column addition and subtraction. Multiplication and division methods. Practice times tables. Identifying and recognising right angles. Adding and subtracting numbers with 1 decimal place. E.g 12.5 + 3.4 Reading measures on scales, weighing in the kitchen. Practice rounding to the nearest interval e.g nearest 100ml 100g 1 litre 1kg.	Multiply Calculate Workout Times Right angle symmetry Symmetrical Decimal place Tenth Rounding Nearest division Interval

		seconds, minutes, hours, days, weeks in a year)	Time - reminders of time facts. There are 52 weeks in 1 year. There are 60 minutes in 1 hour. Read the time and write it in digital 12 and 24 hour. Practice reading the time using clocks and online games https://mathsframe.co.uk/en/resources/resource/116/telling-the-time https://www.mathgames.com/	Weight Capacity Units Scale Annual Annually Yearly Monthly Daily
	Assessment: Entry Level assessment 1st attempt			
Spring 2	**Basic number - four operations** **Representing and interpreting data** **Sequences**	**Basic number** - adding and subtracting. Multiplying and dividing. **Data** - Revisiting drawing accurate bar charts and line graphs. Proving states about data to be true or incorrect. **Sequences** - Worded questions involving application of understanding of sequences	Practise written methods for basic arithmetic. Column addition and subtraction. Multiplication and division methods. Practice times tables. Read bar charts and talk about what is shown.Make comparisons. Reading line graphs and drawing conclusions. Writing and continuing sequences. Advanced would include decimal places. https://www.mathgames.com/	Multiply Calculate Workout Times Interpret Read Graph Chart Table Sequence Pattern Next term
	Assessment: Entry Level assessment resit attempts			
Summer 1	**Functional skills - money** **Angles** **Basic algebra**	**Money** - Calculating involving money. Addition and subtraction. Finding total cost and change. **Angles** - Basic angle rules about a point an on a straight line. **Algebra** - Basic algebra, 1 step equations, substitution. Function machines 1 and 2 step,	Discuss the use of money at home, going to the shops to give real life context. Adding up totals of 2 amounts. £12.50 plus £5.49. Subtracting amounts from whole numbers and decimals amounts, e.g.£10 minus £4.59. Reinforcing basic angle rules. Angles on a straight line add up to 180 degrees, around about a point add up to 360 degrees. 1 step algebra equations. a + 3 = 5 and 10 - c = 4 and 7f = 35 therefore f = 5 Fact families 10 + 4 = 14 therefore 14 - 4 = 10 and 14 - 10 = 4 https://www.mathgames.com/	Total Sum Calculate Change Difference Total amount Straight line Right angle Acute angle Obtuse angle Reflex angle Full turn Algebra Inverse operation (opposite) Function
	Assessment: Entry Level assessment resit attempts			
Summer 2	**Sequences - negative numbers** **Negative numbers - four operations** **Functional skills - time** **Functional skills - measures**	**Sequences** - increasing from negative integers (numbers) into positive integers. Crossing the 0 boundary in difference multiples forwards and backwards. **Negative numbers** addition and subtraction of up to 2 digit numbers, multiplication and division rules involving negative number rules. **Measuring** items using a scale. Measuring accurately using a ruler and weighing using scales.	Practice continuing sequences forwards and backwards across 0. Discuss patterns within sequences and finding missing numbers. Adding and subtracting negative numbers 2 - 3 = -1 -3 - 5 = - 8 3 - - 7 = 4 Multiplying negative numbers -3 x 5 = -15 -5 x -5 = 25 8 x -2 = -16 Measuring items using a ruler or tape measure. Practice weighing items in the kitchen. Reading measures on common household items. https://www.mathgames.com/	Positive Negative Integer Zero mm, cm m Km ml litre g kg