

## Mathematics Curriculum Plan Overview Year 10

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 written methods for basic arithmetic. Column addition and subtraction. Multiplication and division methods. Practice times tables.  Reading charts and graphs and giving statements. "I can see that" There are more than"  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.	Add, sum, total, calculate. subtract, takeaway, minus, difference.  Compare, read, find interpret. Draw, plot.  Fraction, share, divide.
	Assessment: Entr	y Level Section A (non calcula	ator)	
Autumn 2	Sequences Rounding and estimation Positional language Coordinates Time	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.  Time - key time facts (date, seconds, minutes, hours, days, weeks in a year)	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  Position language can be used when going out on every day activities.  Practice coordinates using online games https://mathsframe.co.uk/en/resources/ resource/469/Coordinates-Alien-Attack  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	Pattern, increase, decrease, sequence Round, nearest, estimate, calculate.  Up, down, left, right, straight ahead.  Coordinates, plot, draw, x axis, y axis.  Annual, annually, yearly, monthly, daily.
	Assessment: Entr		appropriate level Entry Level 1,2,3)	
Spring 1	Basic number - four operations	Basic number - adding and subtracting. Multiplying and dividing.	Practise written methods for basic arithmetic. Column addition and subtraction. Multiplication and division methods. Practice times tables.	Multiply, calculate, workout, times.  Right angle,
	Shapes and shape properties  Basic decimal  Measures	Shapes and shape properties - Common shapes, right angles, lines of symmetry.  Basic decimals - Adding and subtracting decimal numbers.	Identifying and recognising right angles.  Adding and subtracting numbers with 1 decimal place. E.g 12.5 + 3.4	symmetry, symmetrical.  Decimal place, tenth Rounding, nearest division, interval.

		Measures - Reading a scale and rounding to the nearest interval e.g. cm or ml.	weighing in the kitchen. Practice rounding to the nearest interval e.g nearest 100ml 100g 1litre 1kg.	Weight, capacity, units, scale.
	Assessment: Entr			
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.	Multiply, calculate, workout, times.  Interpret, read, graph, chart, table.  Sequence, pattern, next term.
	Assessment: Entr	y Level assessment resit atter	npts_	
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, y Level assessment resit atter	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 180degrees, around about a point add up to 360degrees.  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	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: <u>Entr</u>			
Summer 2	Sequences - negative numbers  Negative numbers - four operations  Functional skills - time  Functional skills - measures	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  Adding and subtracting negative numbers  2 - 3 = -1	Positive, negative, integer, zero.  mm, cm, m, km ml, litre g, kg