Mathematics Curriculum Plan Overview

Year 10 Entry Level 3 leading into GCSE curriculum plan overview

Term	Topic	Learning	How can parents' best support
Autumn 1	**Basic number Factors and multiples** **Basic fractions Sequences** **Representing and interpreting data**	**Number** - Negative numbers, index rules, negative indices, standard form, BIDMAS, Describing factors and multiples, Highest Common Factor Lowest common Multiple, using Venn diagrams to find HCF LCM , **Statistics** - Bar charts and pictograms including dual bar charts.	Continued practice with times tables supports work on multiplication and division. Look at data in the media and how it is used/misused.
Assessment:	**Mock Entry Level assessment**		
Autumn 2	**Basic decimals** **Rounding and estimation** **Coordinates and map reading**	Price of products including **decimals.** Sequence patterns involving **decimals** **Rounding** numbers to the nearest whole number. **Geometry and measures** - scale drawings, constructing triangles, scale drawings, bearings Angles - angle rules in triangles,	Estimating weights of objects, amount of items etc. When shopping, add up an estimated total cost of items. Giving directions using instructions of left and right turn,clockwise and anticlockwise. Quarter and Half turns.
Assessment:	**Entry Level assessment entry**		
Spring 1	**Basic number** **Basic algebra** **Area and perimeter** **Units of measures**	**Basic number -** 4 operations **Algebra -** Generating sequences given a rule. continuing a numeric or pictorial sequence given a rule. Collecting terms and simplifying expressions **Geometry and Measures** - area and perimeter of rectangles and squares and compound shapes	Exposure to reading measurements of different common things such as groceries, items in catalogs, estimating distances, etc. Discussion around imperial and metric units, where they may be used and may differ. Converting between common units of measure.
Assessment:			
Spring 2	**Transformations** **Ratio and proportion** **Basic probability**	**Geometry and Measures -** enlarge, rotate and translate shapes using coordinate grids, describe transformations, plot enlargements **Ratio -** simplifying ratios,, share in a given ratio, use the unitary method **Probability** - calculate the probability of single events happening using fractions/decimals/percentages, calculate the probability of something "Not" happening,	Investigations involving recipes and serving suggestions. (Serves 2 people, how much would we need for 3 people 4 people 5 people?...) Discussing the chance of certain events happening. Weather forecasts for example. There is a 35% chance of rain today so therefore there must be 65% it won't rain.
Assessment:			
Summer 1	**Equations** **Angles** **Revision**	**Algebra** - solve 1 and 2 step linear equations **Angle** rules in right angles and straight lines, as well as triangles and quadrilaterals.	Practice missing number questions. e.g. B (blank) multiplied by 6 is 30, what is B? Investigating angles, searching for right angles, acute, obtuse and reflex angles in everyday locations.
Assessment:	**Entry Level assessment resit attempts**		

Summer 2	**Basic Percentages** **Basic decimals** **Money** **Time**	**Basic percentages** - finding 10% 25% 50% and 75% of an amount. **Numbe**r - percentages, basic percentages as proportion of 100, converting percentages to decimals **Money** - 4 operations (adding, subtracting, multiplying and dividing) **Time** - Reading and telling the time in 12 and 24 hour time format.	Working out common percentages of amounts. 25% 50%. reinforcing how 50% is equivalent to a half and 25% is the same as a quarter. Calculating with money. Total cost of a shopping basket. Working with time. Reading timetables, discussing where there is enough time to complete events.