

Year 10 – Foundation

Learning Landmark (LL) assessments:

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
LL1: Baseline Test reviewing previous year's content	LL2: Theme 1&2: Numb. & Calc. and Shape & Angle.	LL3: Theme 3&4: FDP and Algebra	LL4: Modified Foundation GCSE Exam Paper	LL5: Foundation GCSE Exam Paper	LL6: Foundation GCSE Exam Paper

Content Covered:

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme 1: Number and Calculation	Angles in polygons	Theme 4: Algebra	Theme 5: Ratio & Proportion	Theme 7: Data & Probability	Theme 9: Transformations & Graphs
Adding, subtracting, multiplying and dividing numbers written in standard form	Solving geometrical problems using bearings	Revision of previous year's work on algebra	Complex ratio problems involving mixing or concentrations	Multiplication and addition laws of probability	Plot graphs of functions of the form $ax \pm by = c$
Adding, subtracting, multiplying and dividing decimals and negatives using a written method	Solving harder scale factor problems involving similarity	Reading and writing algebraic statements including inequalities	Problems combining fractions and ratio	Draw tree diagrams	Intercepts of linear functions algebraically
Prime factorisations to find the HCF and LCM of two numbers	Solving and proving shape problems	Simplifying expressions	Direct and inverse proportion	Use tree diagrams with independent and dependent combined events to calculate probabilities	Rearranging equations into the format $y=mx+c$ to identify gradient and y intercept
Solving problems using HCF and LCM	Theme 3: Fractions, Decimals & Percentages	Factorising algebraic expressions	The features of graphs that represent a direct or inverse proportion situation	Relative frequency	Gradient of a straight line and its y-intercept
Evaluating numerical expressions involving powers, roots, negatives and fractions	Revision of previous work on fractions	Multiplying two linear expressions	Problems involving inverse proportion	Drawing Venn diagrams	Gradient of a straight-line graph as a rate of change
Rounding numbers to a given number of significant figures with decimals	Adding and subtracting mixed numbers and decimals, including with different denominators	Factorising a quadratic expression	Problems involving rates of pay and s involving unit pricing	Basic set notation and the area of Venn diagrams	Kinematic problems involving distance, speed and acceleration
The difference between truncating and rounding	Dividing mixed numbers by a proper fraction/mixed number	Solving linear equations (one step, two step and introducing three step)	Converting between metric units of area and volume	The mean of a set of data and working backwards to find a missing piece of data	Solutions to simultaneous equations using graphs

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Minimum and maximum values of an amount that have been rounded	Multiplying mixed numbers by a proper fraction/mixed number	Solving equations with unknowns on both sides	Calculating density, mass & volume and pressure, area & force	Calculate and understand the range as a measure of spread (or consistency)	Rotations, reflections and translations
Inequalities to describe the range of values for a rounded value (error interval)	Problems that require exact calculation with fractions	Solving a simple linear and compound inequality in one variable	Convert between units of speed	Analysing data sets, appreciating the limitations of different statistics (mean, median, mode, range)	Constructing and describing enlargements by positive integer with the centre of enlargement
Minimum and maximum values when solving a problem involving upper and lower bounds	Decimal multipliers	Representing linear and compound inequalities on a number line	Combining compound measures (eg, two separate scenarios to find the overall distance)	Grouped frequency tables for continuous data	
The zero index	Increasing an amount by a percentage greater than 100%	Solving a complex linear inequality in one variable	Use bearings with map scale	Pie charts and their use	
$a^{1/n} = \sqrt[n]{a}$	Solving financial problems including simple interest	Changing the subject of a formula	Theme 6: Sequences	Theme 8: Geometry	
Simplifying expressions using the law of indices for negative powers	Calculating a percentage change	Solving two linear simultaneous equations using elimination method	Find the nth term of increasingly difficult linear sequences	Circle definitions and properties, including tangent, arc, chord, sector and segment	
Theme 2: Shapes & Angles		Derive and solve two linear simultaneous equations in real life context	Use the nth term of a sequence to decide if a number is in a sequence	Arc length of a sector, including calculating exactly with multiples of π	
Constructing the perpendicular bisector of a line segment			Fibonacci sequences	Area and angles of a sector	
Construct the angle bisector			Fibonacci type sequences (including algebraically)	Surface area of a right prism and cylinder	
Constructing a perpendicular to a line from a point and at a point			Growing patterns and other problems involving quadratic sequences	Lengths, areas and volumes using ratio notation	
Plans and elevations			Find the nth term of a quadratic sequence from the sequence	Finding missing sides of a right-angled triangle using Pythagoras' theorem and recognise Pythagorean triples	
Corresponding, alternate, opposite and co-interior angles			Find a quadratic sequence from the nth term	Problems using Pythagoras' theorem in two dimensional figures	