

# Maths Year 10 Foundation Curriculum Map

YEAR 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Curriculum Content</b>	<p><b>Composite Number</b> N1 Calculating with Decimals N2 Standard Form</p> <p><b>Composite Algebra</b> A1 Using brackets A3 Linear Graphs</p> <p><b>Composite Geometry and Measures</b> GM1 Scale Drawings GM6 Three dimensional Shapes</p> <p><b>Composite Statistics and Probability</b> SP4 Probability</p>	<p><b>Composite Number</b> N5 Fractions Decimals and Percentages</p> <p><b>Composite Geometry and Measures</b> GM 2 Angles GM 6 Nets</p> <p><b>Composite Statistics and Probability</b> SP2 Line Charts Pie Charts</p>	<p><b>Composite Algebra</b> A1 Solving Equations</p> <p><b>Composite Number</b> N4 Fractions</p> <p><b>Composite Geometry and Measures</b> GM3 Area and Perimeter GM6 Prisms</p>	<p><b>Composite Statistics and Probability</b> SP1 Frequency Tables</p> <p><b>Composite Geometry and Measures</b> Transformations</p>	<p><b>Composite Geometry and Measures</b> GM3 Circles</p> <p><b>Composite Statistics and Probability</b> SP4 Probability</p> <p><b>Composite Number</b> N3 Rounding and Significance</p> <p><b>Composite Algebra</b> A2 Sequences</p>	<p><b>Composite Geometry and Measures</b> GM1 Compound Units GM2 Polygons</p> <p><b>Composite Algebra</b> A3 Plotting Graphs</p> <p><b>Composite Number</b> N3 Approximation</p>
<b>Prior knowledge and skills (from previous year / key stage)</b>	Knowledge and understanding of decimals, negative numbers, basic probability and powers of 10.	Knowledge and understanding of calculating percentages of a quantity, solving simple equations and angles in triangles.	Knowledge and understanding of area, fractions, simple equations and basic algebra as well as 2d shapes.	Knowledge and understanding of symmetry and averages.	Knowledge and understanding of rounding to whole numbers, basic sequences and simple probability	Knowledge and understanding of coordinates in all four quadrants, Polygons and rounding.
<b>Core Knowledge Organiser content</b>	Definitions of keywords, formulae and concepts met within scale drawing, probability and decimals, with accompanying MathsWatch clips, to support independent learning.	Definitions of keywords, formulae and concepts met within equations, angles and graphs, with accompanying MathsWatch clips, to support independent learning.	Definitions of keywords, formulae and concepts met within solving equations and fractions, with accompanying MathsWatch clips, to support independent learning.	Definitions of keywords, formulae and concepts met within circles, enlargements and polygons, with accompanying MathsWatch clips, to support independent learning.	Definitions of keywords, formulae and concepts met within rounding, and sequences, with accompanying MathsWatch clips, to support independent learning.	Definitions of keywords, formulae and concepts met within plotting graphs and approximation, with accompanying MathsWatch clips, to support independent learning.
<b>Assessment Objectives</b>	To be able to demonstrate multiplying and dividing decimals and expanding brackets	To be able to demonstrate converting between fractions decimals and percentages as well as calculating percentages	To be able to demonstrate how to multiply and divide fractions as well as solve simple linear equations	To be able to demonstrate how to transform shapes via rotation, translation, reflection and enlargement.	To be able to demonstrate how to find the area and circumference of a circle, as well as using BIDMAS	To be able to demonstrate how to approximate calculations as well as calculate with compound measures
<b>Vocabulary / Key Subject Terminology</b>	Multiply, divide, standard form, original number, certain, evens, likely, unlikely, Scale, construction, angle	percentage increase, percentage decrease, straight line, vertically opposite and parallel standard form, original number,	square numbers, cube numbers, polygon and quadrilaterals. Fractions, numerator, denominator, equivalent,	Rotate, Reflect, Mirror Line, Enlarge, vector, translation, Scale factor, Centre of rotation grouped frequency, tally,	Circumference, radius, diameter, area, Round, Decimal place, Significant figure, Truncate	Speed, Distance, Time, Density, Pressure, Compound Units quadratic and cubic. Polygon, interior, exterior
<b>Assessment 1</b>	<b>BAM: Reviewing Skills Assessment</b> – N1.8 N1.9 and A 1.6 Multiplying and dividing Decimals and using brackets	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using N5.3 N5.4 Fractions Decimals and Percentages	<b>BAM: Reviewing Skills Assessment</b> – A 1.5 N4.3 N4.6 Multiplying and Dividing Fractions as well as solving equations	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using GM 5.3 GM 5.5 GM5.6 Transformations	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using review N1.7 GM3.3 GM3.4 BIDMAS and Circles	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using review N3.6 GM1.10 Approximation and Compound Units

<b>Assessment 2</b>	<b>BAM: Reviewing Skills Assessment</b> – GM1.9 and SP4 Scale drawing and Frequency trees	<b>Christmas Assessment:</b> Full synoptic assessment.	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using review A 1.7 N4.4 N4.5 Adding and Subtracting Fractions and solving equations	<b>Easter Assessment:</b> Full synoptic assessment.	<b>BAM: Reviewing Skills Assessment</b> - Topic based assessments using review A2.3 A2.4 N3.4 , Sequences and Rounding Decimals	<b>Summer Assessment:</b> Full synoptic assessment.
<b>Cross Curricular Links with other Faculties</b>	Standard form - Science	Percentages Business	Fractions/decimals and percentages - Business	Transformations – Tessellations art	Probability Science Genes	Compound units - Science
<b>Extra-Curricular Offer</b>	KS4 UKMT Problem Solving Club “Problem of the week”	KS4 UKMT Problem Solving Club “Problem of the week”	KS4 UKMT Problem Solving Club “Problem of the week”	KS4 UKMT Problem Solving Club “Problem of the week”	KS4 UKMT Problem Solving Club “Problem of the week”	KS4 UKMT Problem Solving Club “Problem of the week”
<b>Time Allocation</b>	7 weeks 4 lessons per week	7 weeks 4 lessons per week	6 weeks 4 lessons per week	5 weeks 4 lessons per week	6 weeks 4 lessons per week	7 weeks 4 lessons per week