Year 10 Overview

Week Number	10 Higher	Chapter	10 Foundation	Chapter
Week 1	Estimating, HCF, LCM, Calculating Indices		Four Operations inc Negatives	
Week 2	Fractional & Negative Indices, Standard Form	1	Factors and Multiples, HCF & LCM	1
Week 3	Surds, Rationalise the Denominator, Brackets		Powers, Roots, Indices and Prime Factors	
Week 4	Algebraic Indices, Expand & Factorise Singles		Algebraic Expressions and Simplifying	
Week 5	Expand & Factorise Doubles inc. Coefficients	2	Substitution and Formulae	2
Week 6	Formule - Substitute & Rearrange Basic		Expanding Brackets and Quadratics	
Week 7	Linear & Non Linear Sequences inc. Special		Factorising Brackets and Quadratics	
Week 8	Stem & Leaf, Frequency Polygons		Frequency Tables and Pie Charts	
Week 9	Time Series, Scatter Graphs, Line of Best Fit	3	Bar Charts, Pictograms, Time Series	3
Week 10	Averages inc. Grouped Data Tables		Scatter Graphs, Line of Best Fit	
Week 11	Two Way Tables, Pie Charts		Stem and Leaf, Two Way Tables	
Week 12	Calculations with Fractions inc. Mixed Numbers		Calculations with Fractions inc. Mixed Numbers	
Week 13	Ratio - Sharing, 1:n, Convert Currency	4	Fraction, Decimal, Percent Conversions	4
Week 14	Direct & Inverse Proportion, % Change		Fraction & Percentage of an Amount, Perc Change	
Week 15	FDP Conversions inc. Recurring		Solve One and Two Step Equations	
Week 16	Int & Ext Angles, Pythagoras	5	Equations with Brackets and Unknowns on both sides	5
Week 17	Trigonometry		Inequalities - Solving, Writing and Drawing	
Week 18	Sketch, Plot, Find y = mx + c		Continue Sequences, Find and Use nth Terms	
Week 19	Draw Quadratic, Cubic, Reciprocal, Circles	6	Angles - Straight Line, Point, Triangle, Quadrilaterals	
Week 20	Speed, Distance and Velocity Time Graphs		Alternate and Corresponding Angles	6
Week 21	Perimeter, Area, Compound & Trapezium		Interior and Exterior Angles in Polygons	
Week 22	Area, Circumference, Sectors & Arcs	7	Forming and Solving Equations in Angle Problems	
Week 23	Cylinders, Spheres, Cones, Pyramids		Mean, Median, Mode, Range and Stem and Leaf	7
Week 24	Transformations inc Negative & Fractional	8	Averages From Tables	
Week 25	Bearings, Constructions, Loci		Perimeter and Area of Triangles, Rectangles, Trapeziums	
Week 26	Solving Quadratics, Completing the Square		Perimeter and Area of Compound Shapes	8
Week 27	Simultaneous Linear & Quadratics	9	Volume and Surface Area of Prisms	
Week 28	Inequalities - Regions, Solving, Quadratic		Plot Linear Graphs and Calculate y = mx + c	9
Week 29	Probability Trees inc. Conditional	10	Real Life Graphs inc Distance Time Graphs	
Week 30	VENN Diagrams inc. Notation		Translations and Rotations	10
Week 31	Compound Increase & Decrease	11	Englargements and Reflections	
Week 32	Compound Measures		Understand, Write and Simplify Ratio	
Week 33	Congruence & Geometric Proof	12	Solve Problems Using Ratio	11
Week 34	Similarity in 2D and 3D Shapes		Best Value and Problem Solving	
Week 35	MOCK WEEKS		MOCK WEEKS	
Week 36	MOCK WEEKS		MOCK WEEKS	
Week 37				
Week 38				

Term 2A - Foundation

Topic	Small Steps
Solve One and Two Step Equations	Understand and use inverse operations
	Rearrange simple linear equations
	Solve simple liner equations
	Solve two step equations
Equations with Brackets and Unknowns on both sides	Solve linear equations with brackets
	Solve linear equations with unknowns on both sides
Inequalities - Solving, Writing and Drawing	Use correct notation to show inclusive and exclusive inequalities
	Write down whole numbers which satisfy an inequality
	Represent inequalities on a number line
	Solve two sided inequalities
Formula	Substitute values into formulas and solve equations
	Change the subject of a formula
	Know the difference between an expression, equation and formula
Continue Sequences, Find and Use nth Terms	Recognise and extend sequences
	Use the nth term to generate terms of a sequence
	Find the nth term of a linear sequence
Angles - Straight Line, Point, Triangle, Quadrilaterals	Solve geometric problems involving side and angle properties of quadrilaterals
	Identify congruent shapes
	Solve angles problems in triangles
	Know and use angles around a point and on a line facts to calculate missing angles
Alternate and Corresponding Angles	Understand and use the angle properties on parallel lines
	Find missing angles using corresponding and alternate angles
Interior and Exterior Angles in Polygons	Calculate the interior and exterior angles of regular polygons
	Explain why some polygons tesselate and other do not
Forming and Solving Equations in Angle Problems	Solve angle problems using equations
	Solve geometric problems showing reasoning

Term 2A - Higher

Topic	Small Steps
Int & Ext Angles, Pythagoras	Derive and use the sum of angles in a triangle and in a quadrilateral
	Derive and use the fact that the exterior angle of a triangle is equal to the sum of the two opposite interior angles
	Calculate the sum of the interior angles of a polygon
	Use the interior angles of a polygon to solve problems
	Know the sum of the exterior angles of a polygon
	Calculate the length of the hypotenuse in a right angled triangle
	Calculate the length of a shorter side in a right angled triangle
	Solve problems using Pythagoras theorem
Trigonometry	Use trigonometric ratios to find lengths in a right angled triangle
	Use trigonometric ratios to solve problems
	Use trigonometric ratios to calculate an angle in a right angled triangle
	Find angles of elevation and depression
	Know the exact values of sin cos and tan for 0, 30, 45, 60, 90 degrees
Sketch, Plot, Find y = mx + c	Find the gradient and y intercept from a linear equation
	Rearrange an equation into the form y=mx+c
	Compare two graphs from their equations
	Plot graphs with equations ax+by=c
	Sketch linear graphs using the gradient and y intercept
	Find the equation of a line, given its gradient and one point on the line
	Find the gradient of a line passing through two points
	Find the coordinates of the midpoint of a line segment
	Find the gradient and length of a line segment
	Find the equations of lines perpendicular or parallel to a given line
Draw Quadratic, Cubic, Reciprocal, Circles	Draw quadratic graphs
	Solve quadratic equations using graphs
	Identify the line of symmetry on a quadratic graph
	Interpret quadratic graphs relating to real life situations
	Draw graphs of cubic functions
	Solve cubic equations using graphs
	Draw graphs of reciprocal functions
	Recognise a graph from its shape
	Interpret linear and non-linear real life graphs
	Draw the graph of a circle
Speed, Distance and Velocity Time Graphs	Draw and interpret distance time graphs
	Calculate average speed from a distance time graph
	Understand velocity time graphs
	Find acceleration and distance from velocity time graphs
	Draw and interpret real life linear graphs
	Recognise direct proportion
	Draw and use a line of best fit