Year 10 Maths

Subject and Year Group	Autumn 1 Year 10	Autumn 2 Year 10	Spring 1 Year 10	Spring 2 Year 10	Summer 1 Year 10	Summer 2 Year 10
Topic/Unit to be studied	NUMBER – UNITS 1, 2, 3, 5 ALGEBRA – UNIT 4	NUMBER – UNIT 5 GEOMETRY – UNIT 6 DATA – UNIT 7 ALGEBRA – UNIT 8	ALGEBRA – UNITS 9, 10, 11. GEOMETRY – UNIT 12	GEOMETRY – UNITS 13, 14	NUMBER – UNITS 15, 16 PROBABILTY – UNIT 17	DATA – UNIT 18 GEOMETRY – UNIT 19
Core Knowledge and skills	**NUMBER:** Fundamentals, building from KS3: Place value, arithmetic, order of operations, negatives, standard form, approximation and bounds, factors, multiples primes, powers, and indices. Surds. **ALGEBRA:** Fundamentals, building from KS3; algebraic notation, substitution, expanding and factorising a bracket, collecting and simplifying terms. Expanding three brackets	**NUMBER:** Building on KS3 to Algebraic fractions GEOMETRY: Fundamentals of shape properties and angles **DATA:** Collecting and displaying data. Histograms **ALGEBRA:** Building KS3 sequences to non-linear and quadratic sequences	**ALGEBRA:** Building from Unit 9 Sequences to linear graphs, gradient, y=mx+c, travel graphs. Building from unit 4 – solving equations, inequalities, changing subject of equation. Solving linear simultaneous equations with 2 variables. **GEOMETRY:** Perimeter, Area building from KS3. Sectors and segments	**GEOMETRY**: Right angled triangles: Pythagoras and Trigonometry. 3D geometry: volume surface area, using Pythagoras and trigonometry.	**NUMBER:** Percentages building from KS3 to include reverse percentage, compound interest, multiplicative reasoning, and financial applications. Ration and proportion building from KS3 to direct and algebraic inverse proportion **PROBABILITY:** Building from KS3 to conditional probability introduce set notation applying to Venn.	**DATA:** Measures of average and spread building from KS3 to interquartile range, comparing and justifying type of average, and their diagrams **GEOMETRY:** Building skills in Transformations from KS3 to fractional, negative enlargement
Assessment for and of learning	Key assessment 1 – units 1 to 3	Key assessment 2 – units 4 &5 Key assessment 3 – units 6 &7	Key assessment 4 – units 8 to 11	Key assessment 5 – units 12, 13, 14	Key assessment 6 – units 15, 16, 17	End of Year Assessment - units 1 - 18