Year 9 Higher SOW 2019-20

SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Weeks 2- 8 **Unit 1 Number (Split between 2 tests)** Product rule, multiplication and division of decimals, place value, estimating, LCM, HCF, prime factors, powers, roots and indices (inc. fractional and negative), index laws, standard form, surds.	Half Term Holiday	**Weeks 10 - 15** **Unit 2 Algebra** Algebraic indices, expanding brackets (inc. quadratics), factorising linear, solving linear equations (inc. unknowns on both sides), substitution, formulae, changing the subject of a formula, linear sequences including nth term, non-linear sequences (inc. quadratic).	

DECEMBER	JANUARY	FEBRUARY	MARCH
Christmas Holiday	**Weeks 19 - 22** **Unit 3 Interpreting & representing Data (including for grouped data)** Two way tables, pie charts, line graphs for time series, stem and leaf diagrams, frequency diagrams, frequency polygons, averages and range (inc. grouped data), scatter graphs.	**Week 23-24** Revision Lessons and Mid-Term Exam Half Term Holiday	**Weeks 26 – 29** **Unit 4 Fractions, Ratio & Percentages** All four operations with fractions, converting between FDP, recurring decimals, one quantity as a fraction of another, ratio notation, simplest form (inc 1:n), divide into ratio, compare ratios, fractions in ratio problems and vice versa, converting currencies & measures, direct proportion, % increase & decrease, one quantity as a % of another, reverse %.

APRIL			MAY			JUNE		
Week 30-31 **Unit 5 Angles & Trigonometry** Angle notation, 8 basic angle rules – (inc parallel lines), properties of quadrilaterals.	**Easter Holiday**	**Week 34 - 35** **Unit 5 Angles & Trigonometry** Interior and exterior angles in polygons. Pythagoras theorem, basic trigonometry for sides and angles in right angled triangles (SOH CAH TOA)	**Week 36- 37** **Unit 6 Graphs** Finding the gradient and y intercept (y=mx+c), parallel and perpendicular lines, plot and interpret linear, quadratic and cubic graphs.	**Week 38** Revision for end of year exam	Half Term Holiday	***Weeks 40*** *End of Year Exam*	**Week 41** **Unit 6 Graphs** Draw and interpret DST graphs & AVT graphs, geometrical problems on co-ordinate axes.	**Weeks 42 – 44** **Unit 7 Area & Volume** Properties of 2D & 3D shapes, units of measure, area, surface area & volume – inc composite shapes, circles, spheres, cones, arcs and sectors.
1.5 Weeks Catch up time, Activity Week, Trips.								