	Year 10
Half term 1	- Mean median and mode, including from tables. - Problem solving and reasoning with averages - Graphs: bar graphs, time series, scatter diagrams, pie charts - Interquartile range, box plots and cumulative frequency diagrams - Histograms -Percentage problem solving, multipliers and compound change/compound interest - Calculations with negative numbers - Calculations with time
Half term 2	- Recurring decimals and converting recurring decimals to fractions - Irrational numbers, simplifying and manipulating surds, rationalising denominators - Calculations and problem solving with bounds and error intervals - Calculations and problem solving with numbers in standard form - Laws of indices -Problem solving with prime factorisation -Fractional and negative indices
Half term 3	- Expanding double and triple brackets - Factorising quadratics

	- factorising and solving quadratics - sketching nonlinear graphs: quadratic, cubic, exponential, reciprocal -Solving quadratic equations graphically -Shading inequalities -Solving simultaneous equations -Solving nonlinear simultaneous equations -Using the quadratic formula
Half term 4	- Ratio and Proportion -Equations of direct and inverse proportion, including with powers and routes - Graphs of direct and inverse proportion -Areas and perimeters of circles and sectors -Volume of cylinders -Volume of pyramids, cones and frustums -Volumes of spheres and hemispheres
Half term 5	- Nth term of linear and quadratic sequences -Equations of straight graphs, including perpendicular lines -Pythagoras and Trigonometry in right angled triangles -Sin rule, Cosine rule, Area rule
Half term 6	- Transformations of shapes and invariant points. -Column and non-column vectors

	-Angles in polygons -Angles in parallel lines -Similar and congruent shapes -Circle theorems