Year 10 H	**Unit 6**	**Unit 7**	**Unit 8**	**Unit 9**	**Unit 10**	**Unit 11**	**Unit 12**	**Unit 13**
Topic/Theme/ Focus	In this unit students will deepen their understanding of perimeter, area and volume. They will cover fundamental skill such as: Finding the perimeter and area of compound shapes. Calculate the max and min possible values of a measurement. Calculate the volume and surface area of prisms. Calculate the area and circumference of circles. Calculate the volume of a cylinder.	In this unit students will build on their knowledge of Linear graphs. They will learn fundamental knowledge such as: Interpret the gradient and intercept from y = mx+c. Find the midpoint. Find the length of a line segment. Sketch graphs. Find the equation of a line including parallel and perpendicular including perpendicular bisector. Draw quadratic graphs and identify the roots.	In this unit students will build on their knowledge of multiplicative reasoning from KS3. They will learn fundamental skills such as: Finding an amount after repeated percentage change including compound interest. Use relationships involving ratio.	In this unit students will develop their understanding of transformations They will cover fundamental skills such as: Reflect shapes. Rotate a shape. Enlarge shapes by a positive scale factor. Translate a shape using a vector. Students will also look at 3d solids and plans and elevations.	In this unit students will learn how to interpret real life graphs including speed, distance and time. They will learn fundamental skills such as: Calculating average speed from a distance time graph. Drawing distance time graphs. Interpreting distance time graphs. Understand velocity time graphs.	In this unit students will further develop their understanding of interpreting and representing data. They will learn fundamental skills such as: Interpreting and drawing pie charts. Plot and interpret scatter graphs. Calculate the mean, mode, median and range.	In this unit students will build on their knowledge of linear equations and inequalities from KS3. They will learn fundamental skills such as: Solving two linear simultaneous equations. Solve linear inequalities and show on a number line.	In this unit students will be introduced to similarity and congruence in shapes. They will learn fundamental skills such as: Proving that two triangles are similar. Use ratios to work out scale factors. Find missing lengths on similar shapes.

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Key vocabulary	Perpendicular height, cross section, radius	Parallel, Coordinate, Gradient, Intercept Parabola, perpendicular, bisector, roots	Ratio, proportion, equivalent	Vector, Translate, Enlarge, Scale Factor	Speed, velocity, rate of change	Averages	Simultaneous, elimination	Congruent, similar