Year 10 H	**Unit 7**	**Unit 8**	**Unit 9**	**Unit 10**	**Unit 11**	**Unit 12**	**Unit 13**	**Unit 14**
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 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 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 and constructions. 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. Construct triangles using a ruler and compass. Construct a perpendicular bisector. Bisect an angle using a ruler and compass.	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 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.	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 build on their knowledge of quadratics and inequalities from previous units. They will learn fundamental skills such as: Finding the roots of quadratics including algebraically, completing the square and the quadratic formula. Identify turning points and line of symmetry from completing the square. Sketch graphs of quadratic functions and sketch given the roots.
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Key vocabulary	Perpendicular height, cross section, radius	Speed, velocity, rate of change	Ratio, proportion, equivalent	Vector, Translate, Enlarge, Scale Factor	Averages	Congruent, similar	Simultaneous, elimination	Quadratic, parabola, turning point.