**Year 9 Maths**

| Subject and Year Group | Autumn Year 9 | Autumn 2 Year 9 | Spring 1 Year 9 | | Spring 2 Year 9 | Summer 1 Year 9 | | Summer 2 Year 9 |
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| Topic/Unit to be studied | A4 Understanding Formulae | A5 Sequences – Linear and Non-linear | A6 Graphs of Linear Functions & Real-life graphs | N8 Percentage Change | A7 Exploring Quadratics | A8 Simultaneous Equations 1 | G5 Pythagoras' Theorem & Trigonometric Ratios | G6 3D Geometry | G7 Geometrical Transformations |
| Core Knowledge and skills | This unit focusses on interpreting and manipulating formulae. | This unit focusses on pattern spotting and types of sequences. | This unit focusses on the shapes of graphs of linear functions and introduces modelling | This unit focusses on calculator methods for percentage change | This unit focusses on developing skills of factorising quadratic expressions | This unit focusses on solving systems of equations | This unit focusses on using the similarity Of right-angled triangles to find missing sides and angles. | This unit focusses on the properties of surface area and volume of 3D shapes. | This unit focusses on the movement of objects in a coordinate plane. |
| Assessment for and of Learning | Each unit is assessed using a formative (open book) topic test followed by responsive DIRT and application lessons.  Throughout each unit homework is set by the class teacher using Hegarty Maths.  A summative (closed book) end of year assessment is also undertaken in the summer term. | | | | | | | | |