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| **Subject Yearly Overview 2021-2022** |
| **Subject:** **Maths Y9** | **TOPIC** | **COMPONENT** | ***Notes:*** *Why are you delivering this topic at this time of year?* |
| **Autumn 1** | Geometry & Measure | 2D shapes Identify properties of 2D shapes Find Perimeter  Find surface area with formulae (rectangle & right angled triangles) Find the surface area of compound/composite shapes3-D shapesIdentify properties of 3D shapes (faces, edges, vertices)Find volume of a cuboid and other ***simple*** prisms (use formulae) | I find that pupils find this topic easier to grasp and there are many physical resources e.g 3D shapes that pupils can see, hold and relate to learning. This is also the first time that I have taught this cohort and the topic allows me to build relationship and access learning styles etc.  |
| **Autumn 2** | Number | Order positive and negative integers,Adding and subtracting /Multiply & dividing positive & negative integers Introduction to Maths symbols e.g=, ≠, <, >, ≤, ≥ Understand the value of the digits in whole numbers Round numbers to the nearest whole number, 10, 100 or 1000 | This will offer pupils a contrast to the previous term as the focus returns to numbers.  |
| **Spring 1** | Algebra 1 | Simplify and manipulate algebraic expressions:Collecting like termsSimplifying expressions involving sums, products and powers, includingthe laws of indices. | This is quite a large topic which requires it to be taught over two terms. The 2 week Easter holiday allows for this while incorporating a natural break.  |
| **Spring 2** | Algebra 2 | Expand single bracket expressions**S**ubstitute numerical values into formulae and expressions, including scientific formulae | This is quite a large topic which requires it to be taught over two terms. The 2 week Easter holiday allows for this while incorporating a natural break. |
| **Summer 1** | Functional skills prep | Drawing graphs from a table of valuesDeriving information from a table and drawing the appropriate graphsBearingsOrdering fractions, decimals and percentagesMode, Median & Mean | Pupils will now have been taught a large amount of content and be in a position to sit the Functional skills assessments. |
| **Summer 2** | Geometry and measure | Nets of shapesPlans and elevations | The housing markets is typically booming in the Summer months and this will allow ample opportunities to bring real life examples into the classroom |