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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 shapes  3-D shapes  Identify 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 terms  Simplifying expressions involving sums, products and powers, including  the 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 values  Deriving information from a table and drawing the appropriate graphs  Bearings  Ordering fractions, decimals and percentages  Mode, 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 shapes  Plans 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 |