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| **Subject Yearly Overview 2021-2022** | | | |
| **Subject:**  **Maths Y11** | **TOPIC** | **COMPONENT** | ***Notes:*** *Why are you delivering this topic at this time of year?* |
| **Autumn 1** | Ratio, proportion & rates of change  Geometry & measures | Calculating speed, distance & time  Calculating density, mass and volume  Pythagoras’ theorem  Trigonometry | I have found that pupils find these concepts hard to grasp so delivering them early allows enough time to revisit and embed learning. |
| **Autumn 2** | Coordinates  Straight line graphs | Work with coordinates in all four quadrants  Plot graphs of equations that correspond to straight-line graphs  Use the form *y = mx + c* to identify parallel lines; find the equation of the line through two given points or through one point with a given gradient  Identify and interpret gradients and intercepts of linear functions graphically | The night sky is most visible in the winter months and provides an opportunities to view real constellations |
| **Spring 1** | Plans and elevations | Draw nets of some 3D shapes  Identify a 3D shape from its net.  Interpret diagrams to draw plans and elevations. | Building on learning from previous term, this topic is a natural progression |
| **Spring 2** | Number | Express one quantity as a fraction of another, where the fraction is less than 1 or greater than 1  Use ratio notation, including reduction to simplest form  Divide a given quantity into two parts in a given part:part or part:whole  ratio; express the division of a quantity into two parts as a ratio; apply ratio | A contrast to the previous topic to give pupils a fresh perspective |
| **Summer 1** | Venn diagrams | Venn diagrams:  Completing,  Interpreting  Understanding notation  enumerate sets and combinations of sets systematically, using tables, grids, Venn diagrams | Pupils have historically struggled with notation, at this point of the year pupils will have acquired the skills necessary to combat this. |
| **Summer 2** |  |  |  |