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| **Year 8 Term 1.1 - Maths** | |  | | | | | |
| **Enquiry Question: Where do the units we use come from?** | | | | | | | |
| **Unit title: Measuring the World**  **Why now:** This unit of work builds on ideas about proportion you first learn about in Proportional reasoning in Year 7 and applies this to the idea of units of measurement. In this unit, you look at conversion and operations of metric and imperial units first learnt in primary school. This sets up a visual understanding when you continue to area and perimeter later this year and using units in almost all your secondary mathematical education at Langdon Park School. You will also learn about the historical development of units of measurement, in particular the metric system. | | | | | | | |
| **Knowledge**  Students will know about… | **Application/Skills**  Students will be able to… | | **Vocabulary**  *(Tier 2 and 3)* | **Home**  **Learning** | **Assessment** | **Extra Resources**  **Extended Reading** | **Cultural**  **Capital** |
| 1. The historical development of different units of measurement. 2. The origin and basis of the metric system of units. 3. The units of the Imperial system. 4. The multiplicative nature of conversions between different units within any system and between different systems. 5. How time is measured and how to convert between different units of time. | 1. Convert between different metric units of length, mass and capacity. 2. Recognise the prefixes used in the metric system. 3. Convert between the different units of length, mass and capacity in the Imperial System. 4. Convert between basic units of length in metric and Imperial system. 5. Give an outline account of the historical development of the metric system. | | ***Tier 2***  Measure  Convert  Metric  Imperial  ***Tier 3***  Length  Area  Volume  Millimetre  Centimetre  Metre  Kilometre  Millilitre  Lite  Gram  Kilogram  Tonne  Inch  Foot  Yard  Mile  Furlong  Chair  Pound  Ounce  Stone  Ton  Pint  Gallon  Multiplier | **Pre-classroom:**  Pre-lesson tasks on **google classroom** to get you thinking.  Diagnostic questions  **Post-Classroom:**  Post lessons online tasks:   * My Maths * Google Form Quizzes * Independent learning notes | Formative assessment at the end of the units in their LPS books.  This will be a combination of students presenting what they know in a creative way followed by some differentiated questions.  Summative Assessment at the end of T2. | Explore the history with regards to the old system and metric system used in Britain and read How France created the metric system  <http://www.bbc.com/travel/story/20180923-how-france-created-the-metric-system> | Visit the British Museum and see the first recorded units of length and weight used in ancient Mesopotamia |