 **LPS Mathematics: Year 8 Unit 1 – Measuring the World**

**Enquiry Question:** **Which is superior, metric or imperial measurements?**

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| **Key Topics and Learning Sequence** | | | | | |
| **= First Steps** | **= Moving On** | **= Stretch** | | **= Challenge** | |
| **1. Units**   1. Suggest sensible **units** for measurement. 2. Create your own unit(s). 3. Use your own units to **convert** using the grid. 4. Identify **metric** and **imperial** units. 5. Know metric units used to measure **length**, **mass**, and **capacity**. 6. Know imperial units used to measure **length**, **mass**, and **capacity**. 7. Know the geographical context of units. | **2. Metric**   1. Know what **multiplier** the prefix of a metric unit refers to.      1. Understand when to divide and multiply when converting. 2. Multiply and divide by **powers** of ten to convert. 3. Know the history of the metric system. 4. Apply unit conversions to areas 5. Apply unit conversions to volume. | | **3. Imperial**   1. Know the relationship between **miles** and **kilometres**. 2. Know the different units of the imperial system. 3. Use the grid correctly when converting. 4. Know the history of the imperial system. 5. Work out the multiplier when converting between metric and imperial units. | | **4. Time**   1. Can read and interpret the time on an **analogue clock**. 2. Convert between analogue and **digital**. 3. Solve time problems in context. |
| **How does this unit fit into your mathematical learning journey?** | | **Further Exploration, Enrichment and Cultural Capital** | | | |
| 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. 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** later this yearand **using units** in almost all your secondary mathematical education at Langdon Park School. | | **Reading:**  [**https://kids.britannica.com/kids/article/metric-system/353458**](https://kids.britannica.com/kids/article/metric-system/353458)  **Enrichment:** Explore the **history** with regards to the old imperial system and metric system used in Britain.  **Cultural Capital:**  Visit the British Museum and see the first units, lengths and weights used in ancient Mesopotamia in Room 54/55. | | | |

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**Date: Initial Thoughts:**

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**Date: New Thoughts:**

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**Date: Final Thoughts:**

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