|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Year 7 Term 2.1 - Maths** | |  | | | | | |
| **Enquiry Question: How do we correctly apply proportion on a big and small scale?** | | | | | | | |
| **Unit title: Proportional Reasoning**  **Why now?** You probably apply proportion and scaling in your day to day life without realising it, i.e. when following a pancake recipe. In this unit we will explore the importance of **multiplicative relationships** that will help us deepen our understanding of **Ratios**, which you will be **introduced** to later in **Year 7** and developed further in **Year 8 and 9.** | | | | | | | |
| **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. Why multiplication is a key to solving proportion and scaling problems 2. Ways of representing multiplicative relationships 3. Reasoning with multiplication and scaling. 4. Multiplicative relationships. 5. Using grids and number lines. 6. What multipliers are. | 1. Understand that any two numbers can be expressed as multiples of each other. 2. Use number lines and grids to calculate missing quantities. 3. Find and apply integer and fractional multipliers. 4. Convert between units. 5. Find the dimensions of an enlarged shape. | | ***Tier 2***  Multiplier  Proportional  Enlargement  ***Tier 3***  Multiplicative  Integer  Rational number  Dimensions  Scale factor | **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. | **Enrichment:**  Explore what happens to the **area** and **volume** of a shape when it is **enlarged**. | **Cultural Capital:**  Check out the Lego sculptures of many animals and attractions in Legoland. Be a builder too by building your own models of big builds, on a small scale, using the idea of **Proportion.**  [https://www.legoland.co.uk](https://www.legoland.co.uk/) |
| **Numeracy**  Product  Sum  Total  Add  Subtract  Difference |