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| **Year 7 Term 1.2 - Maths** |  |
| **Enquiry Question: Why do we need a universal mathematical language?** |
| **Unit title: Integers and building a classroom** **Why now?** This unit of work build on the mathematical vocabulary, symbols, and notation you **first learn in primary school** and introduces you to new language and notation which you will come across many times in your secondary mathematics education and need in **almost every unit** you learn in your five years at Langdon Park School.  |
| **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 we need a universal language for mathematics.
2. The importance of the equals signs.
3. How arithmetic works.

 1. The idea of a variable.
2. Hypatia and the mathematics of integers.
3. Euclid, Egypt and the foundations of mathematics.
4. Brahmagupta and zero and negatives
 | 1. Define and use key mathematical language.
2. Define and differentiate between an equation and an expression.
3. Create mathematical equations correctly by using the equals symbol.
4. Understand any apply the laws of arithmetic.
 | ***Tier 2***Evaluate ProveLaws***Tier 3***CommutativityEquals IntegerEquationExpressionAssociativityDistributiveVariable | **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 **Euclid** and learn about who he was and what his **axioms** are. | **Cultural Capital:** Look at the Royal Institution Website and enjoy a family fun day exploring some interactive maths or listening to some talks![**https://www.rigb.org/families/family-fun-days**](https://www.rigb.org/families/family-fun-days)  |
| **Numeracy**ProductSumTotalAddSubtractDifference |