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| **Year 8 Term 1.2 - Maths** |  |
| **Enquiry Question: What’s the biggest percentage you can have?**  |
| **Unit title: Fractions, Decimals and Percentages****Why now** This unit will build on work done in Primary School and in **Year 7** on **Rational Numbers.** Much of your later work will use these ideas including both **Ratio and Probability later** this year and **Estimation** and **calculator Percentages** in **year 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. What a fraction is
2. What and equivalent fraction is
3. Arithmetic with fractions
4. What a decimal is and what place value is
5. Arithmetic with decimals
6. What a percentage is
7. Converting fractions, decimals and percentages
8. What mixed numbers and improper fractions are
 | 1. Find an equivalent fraction for any given fraction
2. Simplify fractions by using Highest Common Factors
3. Add, subtract, multiply and divide fractions
4. Add, subtract, multiply and divide decimals
5. Convert fractions, decimals and percentages
6. Convert improper fractions and mixed numbers and carry out arithmetic with these
 | ***Tier 2***ConvertGreaterLesser***Tier 3***FractionNumeratorDenominatorEquivalentHighest Common FactorLowest Common MultipleDecimalPlace ValuePowerPercentageImproper FractionMixed NumberSimplify | **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**Try this task on the wonderful Nrich website <https://nrich.maths.org/12172> | **Cultural Capital:** Can you find the Egyptian Mathematical Leather Roll at the British Museum and write down the fractions mentioned in the roll? |
| **Numeracy**MultiplyDivideAddSubtract |