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| **Year 8 Term 6.2- Maths** |  |
| **Enquiry Question:If you increase a a value by a percentage and then decrease by the same percentage what value will you end up with?** |
| **Unit title:Non-calculator percentages****Why now**You first learn percentages at primary school and then we developed this further in the **rational numbers** unit in **Year 7** and earlier this year with the **fractions, decimals and percentages** unit.  In this unit, we will revise finding the percentage of an amount without a calculator. In **year 9,** you will learn to work with percentages by using a calculator and finding more practical ways of calculating **percentages** using **multipliers.**  |
| **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 percentage is and its relation to fractions and decimals

2. Building up complex percentages from simpler ones3. Interpreting percentages in contexts and worded problems4. Choosing efficient methods for calculations | 1. Calculate a simple percentage of a given amount
2. Build up more complex percentages from simple ones
3. Convert percentages, fractions and decimals
4. Apply and interpret percentages in a range of contexts and worded problems
 | ***Tier 2***EfficientAmountInterpret***Tier 3***FractionDecimalPercentageBuild up | **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 T6.  | **Enrichment:**-Explore where the percentage symbol first developed-Matching fractions, decimals & percentages<https://nrich.maths.org/1249> | **Cultural Capital:**Listen to the following podcast by BBC Radio 4 on the famous mathematician Carl Friedrich Gauss. [https://www.bbc.co.uk/programmes/b09gbnf](https://www.bbc.co.uk/programmes/b09gbnfj) |
| **Numeracy**ProductSumTotalAddSubtractDifferenceDivideMultiply |