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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 ones  3. Interpreting percentages in contexts and worded problems  4. 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***  Efficient  Amount  Interpret  ***Tier 3***  Fraction  Decimal Percentage  Build 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**  Product  Sum  Total  Add  Subtract  Difference  Divide  Multiply |