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| **Year 10 Term 2 - Maths** | |  | | | | | |
| **Enquiry Question: Do you think algebra can be translated like any other language?** | | | | | | | |
| **Unit title: Construction and Geometry**  **Why now?** You have looked at Algebra since **Year 7**. Each year **building** on existing **knowledge** and **deepening** you understanding of the topic. In this Unit you will develop those skills further by looking at **complex** examples, which will in turn help you prepare for **Year 11** when looking at **Quadratics, Coordinate Geometry** and more. | | | | | | | |
| **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. Recap basic algebra- simplifying, indices, expand and factorise, substitution 2. More than one bracket- expanding and factorising 3. Writing expressions 4. Rearranging expressions, including inverses and ‘changing the subject’ 5. What is a formula? 6. Writing a formula 7. Rearranging and using a formula | 1. Simplify expressions.      1. Expand expressions. 2. Factorise expressions. 3. Write expressions and formulae. 4. Rearrange formulae and equations. | | ***Tier 2***  Simplify  Expand  Numerical  operation  expression  ***Tier 3***  Linear  Variable  Equation  Factorise  Roots  Powers  Reciprocals | **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 | Summative Assessment at the end of T2. | **Enrichment:**  Use Algebra to **prove** simple and complex mathematical **facts**. | **Cultural Capital:**  Can you escape in time, in this fun filled adventure using your knowledge of logic and problem-solving skills?  [**https://ldn.escape-entertainment.com/games/**](https://ldn.escape-entertainment.com/games/) |
| **Numeracy**  Product  Sum  Total  Add  Subtract  Difference |