|  |  |
| --- | --- |
| **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***SimplifyExpandNumericaloperationexpression***Tier 3***LinearVariableEquationFactoriseRootsPowersReciprocals  | **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**ProductSumTotalAddSubtractDifference |