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| **Year 8 Term 2.2 - Maths** |  |
| **Enquiry Question: Can the area and perimeter ever be the same value?** |
| **Unit title: Area and Perimeter****Why now?** This unit will build on the knowledge that you have from **Primary** and also the knowledge that you gained earlier this year in the **shapes and symmetry** unit. You will go further in **year 8 and 9** when we work on geometric reasoning and circles.  |
| **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 is perimeter?
2. What is area?
3. Estimating perimeter and area for irregular shapes
4. FInding formulas for working out areas of regular shapes
5. Solving problems with area and perimeter using algebra and coordinate geometry
6. The Greek and Latin roots of much mathematical language
7. Aryabhata and the Indian mathematicians who discovered formulas for area
 | 1. Calculate perimeters of shapes
2. Calculate areas of shapes.
3. Recall the formulae for areas of shapes
4. Problem solve with area and perimeter.
 | ***Tier 2***DistanceUnitsMaximiseminimise***Tier 3***PerimeterAreaFormulaeTrapeziumCompound shapes | **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:** Research who **Maryam Mirzakhani** was and her contribution to maths. | **Cultural Capital:** There are multiple workshops from on the **LEGOLAND Windsor Resort** website that help develop students’ problem solving skills, <https://www.legoland.co.uk/> |
| **Numeracy**ProductSumTotalAddSubtractDifference |