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| **Year 8 Term 6.1 Probability** |  |
| **Enquiry Question: What’s the chance of winning the lottery?** |
| **Unit title:Introduction to Probability****Why now?**This unit of work introduces the concepts of probability after building on data collection **first learned in primary school and in Year 7.** This unit not only builds upon the concepts of **percent** and **ratio** which you met earlier in **Year 7** and this year in **Year 8** but will be used with **relative frequency** during yoursecondary mathematical education at Langdon Park School. You will develop this further in **probability** units in **Year 9.**  |
| **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 likelihood and chance mean
2. What probability is and how to put numbers on it
3. What a sample space is and how to interpret it
4. What a Venn diagram is and how to interpret it
5. The history of the mathematics of probability
 | 1. Make sensible estimates of how likely or unlikely events are
2. Calculate simple probabilities using fractions, decimals and percentages
3. Construct a sample space and calculate probabilities from it
4. Work out expected and relative frequencies and interpret them
5. Use a Venn diagram in the context of probability
6. Work out and interpret the odds of of an event occurring
 | ***Tier 2***LikelyUnlikelyCertainUncertainImpossibleChance***Tier 3***ProbabilitySample spaceFrequencyExpected frequencyRelative frequencyVenn diagramUnionIntersectionOdds | **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:**Watch the following video from Numberphile: <https://www.youtube.com/watch?v=U7f8j3mVMbc> | **Cultural Capital:**Visit the Science Museum and go see the Atmosphere exhibition. What are the odds on being struck by lightning?  |
| **Numeracy**ProductSumTotalAddSubtractpercentageFractions |