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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***  Likely  Unlikely  Certain  Uncertain  Impossible  Chance  ***Tier 3***  Probability  Sample space  Frequency  Expected frequency  Relative frequency  Venn diagram  Union  Intersection  Odds | **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**  Product  Sum  Total  Add  Subtract  percentage  Fractions |