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| **Year 9 Term 2 - Maths** |  |
| **Enquiry Question: What does it mean to be average?** |
| **Unit title: Averages and Spread****Why now?** This unit builds on work from **year 7** on **collecting data.**  Here you learn about measures that represent **data sets**.  In **year 10** you will do a unit on **Frequency** which uses these ideas with larger data sets, in the context of **Racial Inequality.** |
| **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. Ways of representing data- tallies, bar and vertical line charts, pie charts, two way tables
2. Using one number to represent lots
3. Different types of average - mode, median and mean
4. Strengths and weaknesses of different averages
5. Solving problems using averages
6. Why variation and spread matter - and why averages are not enough
7. Range and other ways to measure variation and spread
8. Applying averages and spread to analyse real data
9. The use and abuse of statistics

  | 1. Work in a team
2. Communicate using mathematical language with others.
3. Being a critical consumer of statistics
4. Justifying and Explaining a conclusion
5. Making an evidence based argument
 | ***Tier 2***CombineTallyVariationParallelPlot***Tier 3***ProportionModeMedianMeanAverageRangeQuartileInter-Quartile RangeBox Plot | **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:**Watch this video about how data shows the world changing.  Where do you see averages in it?  https://youtu.be/jbkSRLYSojo  | Go to the Florence Nightingale Museum in London.  Famous as a nurse, but she was so much more!  In fact, she used data to revolutionise medicine!  |
| **Numeracy**FractionDenominatorNumeratorDivisorQuotient |