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| **What will we be learning?****Number**: Understanding multiplicative relationships: percentages and proportionality**Data**: Statistical representations, measures and analysis | **Why this? Why now?**Proportional (multiplicative) reasoning underpins many aspect of mathematics and looking deeper at these types of relationship support developing a more sophisticated view of multiplication (i.e. scaling, which they will have been introduced to in Key Stage 2). Having a sound understanding of how to read, measure and analyse statistics is a fundamental skill to take with you into everyday life as well as being a key employability skill.  | **Key Words:**ProportionRatioMeanMedianModeRange DataScatter graph  |
| **What will we learn?*** Understand that multiplicative relationships can be represented in a number of ways and connect and move between those different representations.
* Understand that percentages are an example of a multiplicative relationship and apply this understanding to a range of contexts.
* Understand proportionality.
* Understand and calculate accurately measures of central tendency and spread
* Construct accurately statistical representations.
* Interpret reasonably statistical measures and representations.
* Choose appropriately statistical measures and representations.
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| **What opportunities are there for wider study?****Dr Frost Maths** is the primary resource that we use for homestudies and it has lots of useful revision tools. Your PLC will link to the relevant Dr Frost video and you can then select “Practise this skill” button below to practise some questions. Alongside this, you can search for a specific topic and you can either practise some questions online, or watch a video. Under the resources section, there is also a “Full Coverage” document for some topics that have a huge bank of exam questions on the topic in question. Log in to get the most out of this resource. <https://www.drfrostmaths.com/course.php?sid=-10> **Corbett Maths** is a good website that has video links as well as Practice Questions and Textbook Exercises. There are also answers available. <https://corbettmaths.com/contents/> **MathsGenie** is another website that has videos and exam questions (along with worked solutions). <https://www.mathsgenie.co.uk/advance-information.html>**Careers Link**InsuranceActuarial science |
| **How will I be assessed?**Home studyHalf term assessmentQuality of classwork |