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| **What will we be learning?**IndicesStandard formCalculating with percentages | **Why this? Why now?** Index laws standard form and calculating with percentages builds on knowledge gained in key stage 3 and builds towards an ability to solve GCSE questions involving these topics. | **Key Words:**IndicesStandard form Calculatingpercentagesintegerpowersinterestpolygon |
| **What will we learn?*** Calculate with and interpret standard form where and *n* is an integer
* Understand and use place value (e.g. when working with very large or very small numbers)
* Calculate with roots and with integer indices
* Use positive integer powers and associated real roots (square, cube and higher)
* Recognise powers of 2, 3, 4, 5
* Solve problems involving percentage change, including:
* percentage increase / decrease problems
* original value problems
* simple interest, including in financial mathematics
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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.   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.   [https://www.drfrostmaths.com/course.php?sid=-10](https://www.drfrostmaths.com/course.php?sid=-10%E2%80%AF%E2%80%AF)  **Corbett Maths -** video links as well as Practice Questions and Textbook Exercises and answers available.   [https://corbettmaths.com/contents/](https://corbettmaths.com/contents/%E2%80%AF)  **MathsGenie -** website that has videos and exam questions (along with worked solutions).   <https://www.mathsgenie.co.uk/advance-information.html>   Careers linkMaths teacher, Accountant |
| **How will I be assessed?** Half term assessments Homestudy tasks Quality of classwork  |