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| **What will we be learning?**  Indices  Standard form  Calculating 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:**  Indices  Standard form  Calculating  percentages  integer  powers  interest  polygon |
| **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 | |
| **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 link  Maths teacher, Accountant | |
| **How will I be assessed?**  Half term assessments  Homestudy tasks  Quality of classwork | |