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| **6th Form**  **Preparation work for**  **Mathematics**  **Summer 2022** | **Listen** to this podcast from Brian Cox and Robin Ince as they discuss the joy of numbers.    [*Numbers, Numbers Everywhere podcast*](https://www.bbc.co.uk/programmes/b048jmy9)  ***Time: 30 mins*** | **Complete** the worksheet in the folder named ‘Corbett Maths Indices’. Use the link on the front of the booklet if you need support.  ***Time: 30 mins*** | **Explore** why any number  to the power of 0 is 1  *Research why this is. Can you then articulate it yourself? Can you write an explanation in words or diagrammatically?*    ***Time: 1hr*** |
| **Complete** the worksheet in the folder named ‘Surds examples and revision questions’. Mark your work using the answers.  ***Time:1 hr*** | **Listen** to this podcast highlighting some of the best Mathematical stories from around the world.  [***Relatively Prime podcast***](https://player.fm/series/relatively-prime-stories-from-the-mathematical-domain)  ***Time: 25 mins*** | **Complete** the worksheet in the folder named ‘Indices examples and revision questions’.  ***Time: 1hr*** | **Explore**    *Hint: rules of indices, solving quadratics*  ***Time: 30 mins*** |
| **Watch** the video giving you some study tips for starting Year 12 Maths.  [*Study Tips for Year 12 Maths*](https://www.youtube.com/watch?v=nxh7eRkiDbw)  ***Time: 5 mins*** | **Read** the information about rational numbers which links to rationalising the denominator with surds.  [What is a rational number?](https://www.mathsisfun.com/rational-numbers.html)  ***Time: 15 mins*** | **Complete** the worksheet in the folder named ‘Corbett Maths surds’. You only need to complete the Apply questions.  ***Time: 1 hr*** | **Read** why Florence Nightingale is actually a well known mathematician.  [Florence Nightingale](https://www.doodlemaths.com/2017/03/10/mathematicians-that-changed-the-world-florence-nightingale-1820-1910/)  ***Time: 15 mins*** |