**St Mary’s Catholic School**

**Year 11 into Year 12 Bridging Work**

**Recommended Reading List for Year 12**

**Computer Science**

*To prepare you for your Sixth Form studies, the reading list below includes a variety of books, articles and other material to read and use, to broaden your knowledge, and to enrich your understanding of Computer Science.*

*Take some time over the summer to complete the reading below, using the tasks to help structure your reading.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Read / Watch** | **Link if this is available online** | **Tasks to complete** | **Any additional notes** |
| The Queen of The North | <http://www.cs4fn.org/fiction/thequeenofthenorth.php> | Write a short paragraph explaining how this story relates to cybersecurity |  |
| Cards on Your Mind | <http://www.cs4fn.org/mentalism/cardsonyourmind.php> | A CS magic trick. Try it on a family member! |  |
| Treasure Hunt—Finite-State Automata | <https://classic.csunplugged.org/wp-content/uploads/2014/12/unplugged-11-finite_state_automata.pdf> | Complete the treasure hunt activity at the end |  |
| Wired Podcasts | <http://www.wired.co.uk/series/wired-podcast> | Listen to one of the tech related podcasts and explain what you found interesting about it |  |
| Algorithms - The Secret Rules of Modern Living | <https://youtu.be/Q9HjeFD62Uk> | Make a list of all the algorithms that you come across in the program and state how useful they are |  |
| 20 Must See TED Talks for Computer Scientists | <https://www.youtube.com/watch?v=EF692dBzWAs&list=PLF7032F8EB1A4F9E2> | Pick one from the playlist that you find interesting and write a short review |  |
| The Great Hack  (If you have Netflix) | <https://www.netflix.com/title/80117542> | Think about what data about yourself that you put in the public domain. With your own internet use what does your profile look like? |  |