|  | **Read** | **Watch** | **Visit** |
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| **Year 7** | **Can You Solve My Problems? by Alex Bellos:** A case book of ingenious, perplexing and satisfying puzzles.<br><br>Students can learn about The Ten Best Mathematicians at https://www.theguardian.com/culture/2010/apr/11/the-10-best-mathematicians | **Download this inspiring TED Talk – Maths is the hidden secret to understanding the world** (reflecting on fractions from a completely different perspective and linking to empathy, one of Qualities of Success): https://www.youtube.com/watch?v=ZQElzjCsl9o<br><br>**Download iPad/iPhone app called Brilliant (also available online at brilliant.org)** – take a daily problem-solving challenge- not for the faint-hearted! | **The Big Bang Fair North West**<br>Look out for key dates for this fantastic exhibition aimed at the UK's Young Scientists and Engineers: **http://www.thebigbangfair.co.uk/** |
| **Year 8** | **Can You Solve My Problems? by Alex Bellos:** A case book of ingenious, perplexing and satisfying puzzles.<br><br>Broaden your knowledge about local greats by reading all about one of Manchester's famous Mathematicians, Alan Turing and discover the contributions he made to Mathematics: **https://www.britannica.com/biography/Alan-Turing**<br><br>Parents can encourage students to research the history behind magic squares, with an introduction written by NRICH Maths: https://nrich.maths.org/8394 | Maths is everywhere! See this inspiring TED Talk about the maths behind Origami: **https://www.ted.com/talks/robert_lang_folds_way_new_origami** | **Breakout, Manchester**<br>For an exciting family experience, visit Breakout Manchester and use your mathematical problem-solving skills to escape from a room in less than an hour!<br><br>**Museum of Science and Industry**<br>Explore the museum to see the contribution maths has made to industry. |
| **Year 9** | **Articles and puzzles to be solved on the NRICH website:** **https://nrich.maths.org/** | Maths is everywhere! Download inspiring TED Talks about the Symmetry, Reality's Riddle: https://www.ted.com/playlists/189/math_talks_to_blow_your_mind | Jodrell Bank<br><br>See how speed, distance and time is used in real life as well as the use of standard form to display numbers in a concise way. |
| **Year 10** | **Fermat's Last Theorem by Simon Singh**<br>This is a popular science book published in 1997. It tells the story of the search for a proof of Fermat's last theorem, first conjectured by Pierre de Fermat in 1637, and explores how many mathematicians | Explore different ways maths is used by watching this inspiring TED Talk about the how Statistics fool juries: http://www.mathsinsider.com/ted-ed/ | **Mathematical Games from Around the World:** https://nrich.maths.org/8261 |

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| | such as Évariste Galois had tried and failed to provide a proof for the theorem. | | |
| **Year 11** | Students can access a daily conundrum linked to topics covered this year on Corbett Maths by clicking "Conundrum" on the home page of the website: www.corbettmaths.com | Worked solutions for practice papers can be accessed on YouTube by specifying the tier, set and paper specifics in the search bar | Students can log onto PiXL Maths App (logins were given to students in Year 10 and at the start of term) to revise key topics covered this half term |