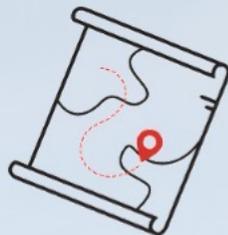




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MATHS



READ-WATCH-VISIT

EXTRA-CURRICULAR

YEAR GROUP

READ

WATCH

VISIT

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Can You Solve My Problems? by Alex Bellos: A case book of ingenious, perplexing and satisfying puzzles.

Students can learn about The Ten Best Mathematicians at <https://www.theguardian.com/culture/2010/apr/11/the-10-best-mathematicians>

White Rose Maths Barvember

Bar modelling in November, primarily aimed at KS2 but applicable to KS3 also <https://whiterosemaths.com/resources/barvember#problems>

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=ZQEzjCsl9o>

Download iPad/iPhone app called Brilliant (also available online at brilliant.org) – take a daily problem-solving challenge- not for the faint-hearted!

Virtual Maths Club, run by Angela Gould BMAM LTD

Puzzles for y7-9 and yr 10-11, ran after school via Zoom

The Big Bang Fair North West

Look out for key dates for this fantastic exhibition aimed at the UK's Young Scientists and Engineers: <http://www.thebigbangfair.co.uk/>

Eedi offer live lessons and parent support webinars

They offer live lessons and zoom sessions for parent/carers providing advice on how to support their children (all free) <https://family.eedi.com/signup/parent/>

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Can You Solve My Problems? by Alex Bellos: A case book of ingenious, perplexing and satisfying puzzles.

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>

Parents can encourage students to research the history behind magic squares, with an introduction written by NRICH Maths: <https://nrich.maths.org/8394>

Build your knowledge of algebra by watching this discussion of the problems of language, and how algebraic notation is an attempt to avoid any ambiguities: <https://www.bbc.com/education/clips/zwf8a6f>

Maths is everywhere! See this inspiring TED Talk about the maths behind Origami: https://www.ted.com/talks/robert_lang_the_math_and_magic_of_origami

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Breakout, Manchester

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!

Museum of Science and Industry

Explore the museum to see the contribution maths has made to industry. [Curriculum links to Engineering and Science.](#)

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Parents can encourage students to research the history behind magic squares, with an introduction written by NRICH Maths: <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](#)
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.

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ASMP

Offer a wealth of courses for GCSE and A level students, which are both live zooms and self-paced study
<https://amsp.org.uk/events?filter=region&value=xnwx>

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Fermat's Last Theorem by Simon Singh

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 such as Évariste Galois had tried and failed to provide a proof for the theorem.

Explore different ways maths is used by watching this inspiring TED Talk about the how Statistics fool juries:
<http://www.mathsinsider.com/ted-ed/>

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Mathematical Games from Around the World: <https://nrich.maths.org/8261>

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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

Alan Turing Cryptography

Now in its tenth year, aimed at secondary school children in the UK up to Year 11 (England and Wales), S4 (Scotland), Year 12 (Northern Ireland). You don't need to be a computer whizz or a mathematical genius — you just need to keep your wits about you and be good at solving problems!
https://www.maths.manchester.ac.uk/cryptography_competition/

Worked solutions for practice papers can be accessed on YouTube by specifying the tier, set and paper specifics in the search bar

Virtual Maths Club, run by Angela Gould BMAM LTD

Puzzles for y7-9 and yr 10-11, ran after school via Zoom

Mathsbombe

You don't need to be a computer whizz or a mathematical genius — you just need to keep your wits about you and be good at solving puzzles!
<https://www.maths.manchester.ac.uk/mathsbombe/>

Visit [UCLAN](#) to see what career options you can explore through the study of Maths.

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