

Beyond the Classroom: Wider learning opportunities

Subject: Maths


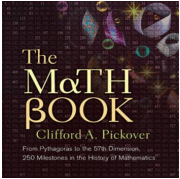
Year: 7

Watch	Do	Read	Follow	Visit
The film 'Hidden figures'	Complete a Sudoku.	Research a Mathematician and make a poster about their life and work.	BBC Bitesize	Visit the Science Museum, in particular its Maths wing .
Watch 'What happens when Maths goes wrong'	Create your own Kahoot (set by Miss Bendel)		PixiMaths	Bletchley Park.
Watch 'How to catch a serial killer'	Practise your times tables using the pixl app.		Pixl Times tables	Oxford Maths Festival

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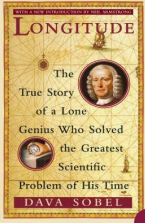
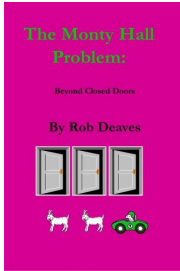
Year: 8

Watch	Do	Read	Follow	Visit
The film 'X+Y'	Complete a Sudoku.		BBC Bitesize	Bletchley Park.
The film 'Hidden Figures'	Create your own Kahoot (set by Miss Bendel)		PixiMaths	Visit the Science Museum, in particular its Maths wing .
Watch 'How to get lucky' about probability	Practise your times tables using the pixl app.	Research pi and the applications of pi. How is it derived? Experiment with a piece of string and some circular objects!	Pixl Times tables	Christmas Lectures, The Royal Institution

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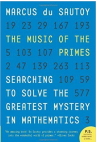
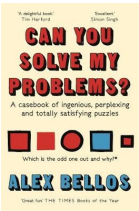
Year: 9

Watch	Do	Read	Follow	Visit
The film 'The Man Who Knew Infinity'	Complete a Sudoku.	 The book cover for 'Longitude' by Dava Sobel features a portrait of John Harrison and a pocket watch. The text on the cover reads: 'LONGITUDE: The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time' by DAVA SOBEL.	@whatifnumbers	The Big Bang Fair
The film 'Imitation Game'	Learn to play Rummy, Cribbage, and Canasta with a deck of cards	Research Pythagoras. How did he make his discoveries?	@nrichmaths	Bletchley Park.
Watch 'How to bend the rules'	Visit the nrich website - the site contains thousands of challenges. Start by completing one star challenges, and work up to the more difficult ones!	 The book cover for 'The Money Hall Problems' by Rob Deaves has a pink background. It features three open book icons and illustrations of a dog and a car. The text on the cover reads: 'The Money Hall Problems: Beyond Closed Doors' by Rob Deaves.	@mrbartonmaths	Visit the Science Museum, in particular its Maths wing .

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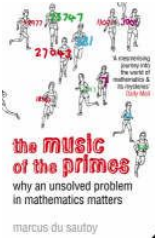

Year: 10

Watch	Do	Read	Follow	Visit
Watch 'The Golden angle'	Listen to a podcast on prime numbers	Research the Fibonacci sequence, the golden ratio, and its application to nature.	@whatifnumbers	The Bank of England Museum
The film 'X+Y'	Have a go at some Maths problems on		@Drfrostmaths @mrbartonmaths	Bletchley Park.
The film 'Imitation Game'	Complete some UKMT Maths challenge problems to improve your problem solving.		@nrichmaths @UKMathsTrust	Visit the Science Museum, in particular its Maths wing .

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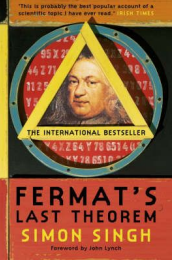
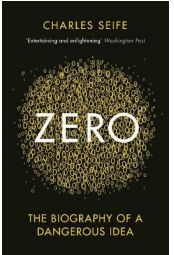
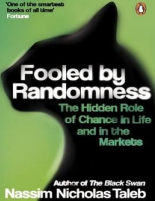
Year: 11

Watch	Do	Read	Follow	Visit
The film 'The Man who knew infinity'	Work through the Maths Genie topic packs.		@whatifnumbers	The Bank of England Museum
The film 'Imitation Game'	Use Unifrog to research some Maths MOOCS - there will be some online courses that introduce you to A Level Maths.		@nrichmaths	Bletchley Park.
Watch 'Should computers run the world'	Look at the lectures offered by Maths in Action		@Drfrostmaths	Visit the Science Museum, in particular its Maths wing .

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Year: 12&13

Watch	Do	Read	Follow	Visit
The film 'The Man who knew infinity'	Look at the outreach programme at the Mathematical institute.	 The cover of the book 'Fermat's Last Theorem' by Simon Singh. It features a portrait of Pierre de Fermat inside a yellow triangle, surrounded by a circular arrangement of numbers. The title 'FERMAT'S LAST THEOREM' and the author's name 'SIMON SINGH' are prominently displayed at the bottom.	@whatifnumbers	The Bank of England Museum
The film 'Good will hunting'	Look at the student section on the AMSP website. There are lots of resources and puzzles.	 The cover of the book 'Zero: The Biography of a Dangerous Idea' by Charles Seife. The title 'ZERO' is written in large, white, block letters against a dark background filled with a pattern of small, golden dots. The author's name 'CHARLES SEIFE' is at the top.	@Drfrostmaths	Bletchley Park.
Watch 'The Monty Hall problem'	Look at the London Mathematical Society website	 The cover of the book 'Fooled by Randomness: The Hidden Role of Chance in Life and in the Markets' by Nassim Nicholas Taleb. It features a silhouette of a person's head in profile against a green background. The title 'Fooled by Randomness' is in white and yellow text.	@NCETM	Visit the Science Museum, in particular its Maths wing .