



# MATHEMATICS SUPER CURRICULUM YEAR 7
















<p><b>Watch the documentary: The Story of 1</b> – history of numbers presented by Terry Jones, directed by Nick Murphy.  <a href="#">Terry Jones, The Story of 1</a></p>	<p><b>BBC Universe Documentary: The Great Math Mystery BBC Documentary 2015</b>  <a href="#">BBC Universe Documentary: The Great Math Mystery BBC Documentary 2015</a></p>	<p><b>Wild Maths – explore, imagine, experiment and create!</b> – try and explore one of the games from the rich site  <a href="#">Wild Maths - explore, imagine, experiment, create!   wild.maths.org</a></p>
<p><b>A Brief History of Mathematics</b> - by Marcus du Sautoy – podcast – 10 episodes BBC 4 Radio  <a href="#">A Brief History of Mathematics - Newton and Leibniz - BBC Sounds</a>          Requires a sign up to BBC SOUNDS</p>	<p><b>Research the mathematician Pythagoras</b>  <a href="#">The Approximate History of Pythagoras - Patterns and relationships: Video playlist - BBC Bitesize</a></p>	<p><b>Create a song or rhyme to help you remember a formula. Search for formula on basic shapes</b>  <a href="#">Area of shapes formula sheet</a></p>
<p><b>Create a poster on everything you know about different shapes</b> – develop it further with additional facts you learn through research. A good starting point  <a href="#">Properties of quadrilaterals - KS3 Maths - BBC Bitesize</a></p>	<p><b>Science Museum – Maths Gallery</b> - visit newly open section of Science Museum involving various aspects of Maths.  <a href="#">Mathematics: The Winton Gallery   Science Museum</a></p>	<p><b>Life of Fred Maths</b> - by Stanley F. Schmidt          - Series of stories based on maths genius Fred Gauss.  <a href="#">Life of fred : beginning algebra : Stanley F. Schmidt</a></p>
<p><b>Watch the biography-based drama on Srinivasa Ramanujan Indian Mathematician in Trinity College, England</b> – ‘The Man Who Knew Infinity’ directed by Matthew Brown.</p>	<p><b>Listen to the podcast on mathematics, logic and puzzles with Chaim Goodman-Strauss and Kyle Kellmas series – The Math Factor.</b>  <a href="http://mathfactor.uark.edu/">http://mathfactor.uark.edu/</a></p>	<p><b>Set up free online maths program using Khan Academy</b>          - Online tutor covering all High School topics – based on USA system <a href="#">Khan Academy</a> (students you might need your parent to set up an account to support you)</p>
<p><b>The Everything Kids: Maths Puzzle Book, by Meg Clements:</b>          - Puzzles, games and trivia; find how to make maths fun and entertaining.</p>		









	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



# MATHEMATICS SUPER CURRICULUM YEAR 8
















 <p><b>Alex's Adventures in Numberland</b>, by Alex Bellos - an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck <a href="#">Alex's adventures in numberland : Bellos, Alex, 1969</a></p>	 <p><b>The Colossal Book of Short Puzzles and Problems</b>, by Martin Gardner - collection of short and inventive problems by popular mathematics and science writer <a href="#">The Colossal Book of Short Puzzles and Problems : Martin Gardner</a></p>
 <p><b>Wild Maths – explore, imagine, experiment and create!</b> – try and explore one of the games from the nrich site: <a href="http://wild.maths.org/">http://wild.maths.org/</a></p>	 <p>Explore the Science Museum website and use the 'maths' search. Why not learn about famous women mathematicians amongst other topics? <a href="#">Women in Maths   Science Museum</a></p>
 <p><b>Bletchley Park</b> – visit Bletchley Park and explore the world of coding and maths <a href="#">Bletchley Park   Home</a></p>	 <p><b>Science Museum</b> visit the science museum and see how maths drives scientific discovery <a href="#">Visit   Science Museum, London</a></p>
 <p><b>Watch film 'The Imitation Game'</b> based on mathematician Alan Turing's involvement in code breaking of Enigma by Morten Tyldum</p>	 <p><b>Listen to Travels in a Mathematical World</b> podcast, by Peter Rowlett - featuring mathematicians talking about their work as well as features on maths history and maths news; <a href="http://www.travelsinamathematicalworld.co.uk/">http://www.travelsinamathematicalworld.co.uk/</a></p>
 <p><b>Documentary : Top 10 equations that changed the world</b> <a href="#">Documentary : Top 10 equations that changed the world</a></p>	 <p><b>Circle Song</b> – use it to memorise area and circumference formulae <a href="#">Circle Song</a></p>
 <p>Explore some of the problems from the nrich.maths site to develop your problems solving skills <a href="#">Secondary Students   NRICH</a></p>	 <p><b>Design a house or a school</b>, producing full scale drawing, calculating area and showing all the relevant measurements. Complete the task by creating Paper or cardboard model.</p>
 <p><b>Beautiful Equations (2010)</b> – BBC documentary featuring Stephen Hawkins and Matthew Collins (maths and art together) <a href="#">Beautiful Equations - watch free online documentaries - ihavenotv.com</a></p>	









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	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



# MATHEMATICS SUPER CURRICULUM YEAR 9



 <p><b>How not to be wrong: The Hidden Maths of Everyday Life</b> Read Jordan Ellenberg's bestseller - it shows us, maths touches on everything we do, and a little mathematical knowledge reveals the hidden structures that lie beneath world's messy and chaotic.</p>	 <p><b>The Maths Behind the Magic</b>, by Adam Boddison – exploring maths and magic.</p>
 <p><b>Research Srinivasa Ramanujan and his influences on modern Mathematics.</b></p>	 <p><b>Wild Maths – explore, imagine, experiment, create!</b> – try and explore one of the games from the rich site: <a href="http://wild.maths.org/">http://wild.maths.org/</a></p>
 <p><b>Science Museum – Maths Gallery</b> - visit newly open section of Science Museum involving various aspects of Maths. <a href="#">Mathematics: The Winton Gallery   Science Museum</a></p>	 <p><b>Bletchley Park</b> – visit Blechley Park and explore the world of coding and maths. <a href="https://www.bletchleypark.org.uk/visit-us">https://www.bletchleypark.org.uk/visit-us</a></p>
 <p><b>Watch Movie based on Biography of John Forbes Nash Jr.</b> – mathematical genius – ‘A Beautiful Mind’ directed by Ron Howard.</p>	 <p><b>Math and the rise of Civilisation episode 1 – ‘The Beginnings of Numbers’</b> <a href="#">Math And The Rise Of Civilization. Ep.01 - The Beginning of Numbers</a></p>
 <p><b>Math and the rise of Civilisation episode 2 – ‘The Elements’</b> <a href="#">Math And The Rise Of Civilization. Ep.02 - The Elements</a></p>	 <p><b>Math and the rise of Civilisation episode 3 and 4 – ‘The Divinity of Numbers’ &amp; ‘The world in Motion’</b> <a href="#">Math And The Rise Of Civilization. Ep.03 - The Divinity of Numbers</a> <a href="#">Math And The Rise Of Civilization. Ep.04 - The World in Motion</a></p>
 <p><b>This is not a Maths Book</b>, by Anna Weltman – fusion of maths and art/drawing – work through fun drawing challenges with a mathematical basis.</p>	 <p><b>Be inspired by series of Math and the rise of Civilisation documentaries and create the time line of key number and maths related discoveries.</b></p>
 <p>Push ahead with GCSE content and pre-learn challenging high grade topics <a href="#">Maths Genie • Learn GCSE Maths for Free</a></p>	

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