








Year 11

Transition tasks - Summer 2021 (Maths and Further Maths)






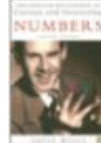





 <p>Watch any video of your choice from the Numberphile website – there are lots to choose from:</p> <p>numberphile</p>	 <p>Complete the AMSP transition to A level maths course. Use the link below to sign up for a free account to access the materials.</p> <p>https://my.integralmaths.org/integral/management/self_reg_students.php</p>	 <p>Watch Matt Parker’s Royal Institute lecture which covers part of the content of his book ‘Humble Pie’:</p> <p>When Maths Goes Wrong</p>	 <p>Read a popular maths book, there are lots to choose from, but you can take inspiration for the list available on the next page.</p>
 <p>Listen to a podcast from ‘More or Less’, the BBC radio 4 programme that uses statistics to make sense of everyday life. There is lots on Covid-19, but you may prefer <i>Mathematics and the Simpsons</i> instead</p> <p>More or Less</p>	 <p>Watch Benoit Mandelbrot’s TED talk on fractals and roughness.</p> <p>Fractals and Roughness</p>	 <p>Complete an Intermediate Maths Challenge paper from the UKMT or push your-self to complete a Senior one instead:</p> <p>Intermediate Senior</p>	 <p>Listen to this radio programme in which Jim Al-Khalili interviews Professor Ian Stewart, mathematician and author of popular maths books:</p> <p>Life Scientific</p>
 <p>Learn about problem solving and complete one of the problem sheets available in your Maths Google classroom.</p>	 <p>Watch this PBS documentary on origami and discover how it is much more than paper folding:</p> <p>The Origami Revolution</p>	 <p>Watch this three part documentary originally made by Hanna Fry for the BBC:</p> <p>Magic Numbers - Mysterious World of Maths</p>	 <p>Complete every now and again one of Mr Hegarty’s online lessons for A-level mathematics transition available live on YouTube</p> <p>A-level maths transition videos Hegarty MathsTasks</p>
 <p>Listen to this radio programme in which BBC security correspondent Gordon Corera goes inside Britain's secret listening station:</p> <p>GCHQ Cracking the Code</p>	 <p>Watch this talk from Matt Parker, the stand-up mathematician and see if you can solve his maths calculator trick. If you can’t, the video will give you the answer:</p> <p>Calculator Trick</p>	 <p>Read an article published in Plus Magazine – there are plenty to choose from:</p> <p>Maths in a minute</p>	 <p>Listen to this radio programme in which Melvyn Bragg explores how the perception of mathematics has changed in the 20th century:</p> <p>In our time</p>

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READING SUGGESTIONS for all: there are lots of popular maths books, these are some that you may enjoy.

Fermat's Last Theorem <i>Simon Singh</i> 	17 Equations that Changed the World <i>Ian Stewart</i> 	The Code Book <i>Simon Singh</i> 	Uncle Petros and Goldbach's Conjecture <i>Apostolos Doxiadis</i> 
Does God Play Dice <i>Ian Stewart</i> 	The Penguin Book of Curious and Interesting Numbers <i>David Wells</i> 	1089 And All That <i>David Acheson</i> 	Mathematics <i>Wayne L Winston</i> 
Alex's Adventures in Numberland <i>Alex Bellos</i> 	The Man Who Loved Only Numbers <i>Paul Hoffman</i> 	Humble Pi <i>Matt Parker</i> 	The Great Mathematical Problems <i>Ian Stewart</i> 