



Spring Term 1

Topic Title: Famous for more than 5 minutes - Mathematicians!

History	Geography	Art	Design and Technology
Learn about the key figures of Ada Lovelace, Alan Turing, Fibonacci and Leonardo de Vinci and learn about the fields of mathematics in which they worked.	Where in the world the mathematicians we are studying are from.	<p><i>Photograph patterns in the environment, art in nature (Fibonacci).</i></p> <p><i>Photograph each other to recreate the Vitruvian Man (Leonardo De Vinci).</i></p>	

Key drivers of the curriculum

Aspirations	Global citizenship	Wellbeing
Jobs as Mathematicians, computer scientists, science, physics, biology, the natural world	<p>Through mathematics we can discover that although we are all physically outwardly different, we all fit the same pattern within Di Vinci's Vitruvian Man.</p> <p>The realization that mathematics is in everything and always has been if you choose to see it.</p>	Links to physical outdoor activities - searching for mathematical trails.

Core links through the curriculum.

Basic Skills

Real World Applications

English	Numeracy	Using Technology including Computer Science	Science
<p>Key texts</p> <p>Writing opportunities Presentation of a Famous Mathematician</p> <p>Reading opportunities Research into famous mathematicians</p> <p>Hidden Figures: The true story of Four Black Women and the Space Race- Margot Shetterly</p> <p>Alan Turing- Maria Isabel Sanchez Vegara</p> <p>Ada Lovelace- Maria Isabel Sanchez Vegara</p>	<p>Measuring body parts and linking to Vitruvian Man.</p> <p>Use of sequences to show the theory behind patterns in nature.</p> <p>Deciphering codes and secret messages.</p>	<p>Compare modern-day and older technologies for calculating and programming and create a model mathematical function machine.</p> <p>Use and create algorithms for common daily tasks.</p> <p>Finally, create and de-bug algorithms to solve 'Scratch' problems.</p>	<p>Astrology</p> <p>Biology /Natural world</p> <p>Physics</p>

Blockhead: The Life of Fibonacci-Joseph D'agnese			
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Objectives	Activities
ICT:	
<p>I understand that search results are selected and ranked.</p> <p>I can be confident in creating and modifying text and presentation documents for a specific purpose.</p> <p>I know how to use a spell check.</p> <p>I can use sequence selection and repetitions that work with variables and forms of input and output.</p>	<p>Using google for research.</p> <p>Using PowerPoint to create a presentation about a famous mathematician.</p> <p>Use scratch to show how Ada and Alans coding is put into practise</p>
Art	
<p>I can describe how my own work is similar and/or different to the work of well known artists and designers that I have studied.</p>	<p>Compare our version of the Vitruvian man to that of LDV and whether it works at all age ranges.</p>
History	
<p>I can identify details from global history to demonstrate some overall awareness of themes, societies, events and people.</p> <p>I can sequence a number of the most significant people using some dates, period labels and terms.</p> <p>I can comment on the importance of causes and effects for some of the key events and developments within topics.</p> <p>I can explain why some aspects of historical accounts, themes or periods are significant.</p>	<p>Find where each mathematician fits into our historical timeline and the influences they had on the future of society.</p> <p>Code breaking cause and effects.</p> <p>Why is maths significant in everyday life?</p>