

Year Group	SOL	Read	Watch	View
7	Sequences	Famous mathematical sequences: https://edublognss.wordpress.com/2013/04/16/famous-mathematical-sequences-and-series/ Seeing spots: https://www.cambridgemaths.org/blogs/seeing-spots/	The magic of Fibonacci numbers Arthur Benjamin (TED talk): https://www.youtube.com/watch?v=SjSHVDfXHQ4 Fibonacci sequences in nature: https://www.youtube.com/watch?v=nt2OIMAJ6o	Visit Bletchley Park - discover the amazing stories of the World War Two Codebreakers https://bletchleypark.org.uk/plan-a-visit/
7	Place value	Averages in real life: https://www.statology.org/mean-median-mode-real-life-examples/	A brief history of numerical systems - Alessandra King (Ted-Ed) https://www.youtube.com/watch?v=cZH0YnFpjwU	What does a billion pounds actually look like? https://www.bbc.co.uk/news/av/uk-50576648 Worldometer: https://www.worldometers.info/
7	Fraction & Percentage of Amounts	How many colours are in your candy? https://www.cda.co.uk/blog/how-many-colours-are-in-your-candy/	Heather's Weather Whys: https://www.youtube.com/watch?v=CSuagyfPTk0&t=1s	The 1% club – ITV X: https://www.itv.com/watch/the-1percent-club/10a0593
7	Geometric Reasoning	Maths in the real world: https://codinghero.ai/super-interesting-examples-of-maths-in-real-world/	Why are there 360 degrees in a circle? https://www.youtube.com/watch?v=BN58gPoW7DI Polygons: https://www.youtube.com/watch?v=wo9YMBe6F1M&t=151s	Visit the Science Museum - Mathematics – The Winton Gallery: https://www.sciencemuseum.org.uk/see-and-do/mathematics-winton-gallery Alternative to visiting in person: https://www.youtube.com/watch?v=XjLNwSs5isY&t=106s
7	Primes & Proof	The importance of prime numbers in the real world: https://interestingengineering.com/science/the-incredible-importance-of-prime-numbers-in-daily-life	5040 and other primes (highly composite numbers): https://www.youtube.com/watch?v=2JM2olmb9Qg	Film: The man who knew infinity (2015) - Follows the story of mathematician Ramanujan.
8	Ratio and scale	How to bake π by Eugenia Cheng	Pi – Numberphile https://www.youtube.com/watch?v=yJ-HwrOpIps	The plastic ratio https://www.numberphile.com/videos/the-plastic-ratio
8	Representing data	Spurious Correlations by Tyler Vigen	Statistics on Match Day https://www.youtube.com/watch?v=GyN-qpVfOWA	Sport data sets https://data.world/datasets/sports

8	Brackets, equations and inequalities	The indisputable existence of Santa Claus by Hannah Fry and Thomas Oléron Evans	The relationship equation https://www.youtube.com/watch?v=BkOlw7vAZCQ&pp=ygUUbnVtYmVycGhpbGUgZXF1YXRpb24%3D	A brief History of time – Stephen Hawking documentary
8	Sequences	Blockhead – The life of Fibonacci by Joseph D'Agnese	The magic of Fibonacci numbers – Ted Talk https://www.youtube.com/watch?v=SjSHVDfXHQ4&pp=ygUZc2VxdWVuY2VzIG1hdGhzIHJlYWwgbGlmZQ%3D%3D	The golden ratio in nature https://www.mathnasium.com/blog/14-interesting-examples-of-the-golden-ratio-in-nature#:~:text=For%20example%2C%20the%20measurement%20from,%2C%20ants%2C%20and%20honey%20bees.
8	Symmetry and reflection	Seeing Symmetry by Loreen Leedy	The Mathematics of symmetry https://www.youtube.com/watch?v=YBhqFs6VkkY	Symmetry in nature https://listverse.com/2013/04/21/10-beautiful-examples-of-symmetry-in-nature/
8	Data handling	How Charts work by Alan Smith	Statistics on Match Day https://www.youtube.com/watch?v=GyN-gpVfOWA	Sport data sets https://data.world/datasets/sports
9	Three Dimensional Shapes (3D)	3D shapes in the movies How Pixar Improved 3D Animation With Every One of Its Movies (Part 2) (insider.com) 3D Shapes in real life 3D Shapes in Real Life Applications of Solid Shapes (cuemath.com) Geometry in Architecture Geometry in Architecture - archisoup Architecture Guides & Resources	The math behind the movies Pixar: The math behind the movies - Tony DeRose - YouTube	Properties of 3D shapes Recognise and describe 3D shapes - Maths - Learning with BBC Bitesize - BBC Bitesize 3D shapes in historical buildings Geometry, 3D Shapes in Historical Buildings - YouTube
9	Maths and Money	How to win at Monopoly Here's how to win at Monopoly, according to math experts (ted.com) Why learning about money is important? The Importance of Teaching Money Skills - TeachHUB How to help kids understand and read their bank statements GoHenry	Student Money Podcast Student Money Podcast – No More Beans - Save the Student The Surprising Way to Teach Your Kids to be Smart with Money Ellen Rogin TEDxSevenMileBeach - YouTube	How banks depend on confidence of their depositors "Fidelity Fiduciary Bank" - YouTube Savings Goals for Kids What are Savings goals? Financial education for kids Teaching money kids - YouTube
9	Pythagoras	Pythagoras' theorem in real life - Pythagoras' theorem - Intermediate & Higher tier - WJEC - GCSE Maths Numeracy (WJEC) Revision - BBC Bitesize	Pythagorean Theorem in Real Life Applications - Bing video Pythagoras Podcast	Educational Video Pythagoras - Video - National 4 Maths - BBC Bitesize

		Real Life Uses of the Pythagorean Theorem Sciencing BBC - History - Historic Figures: Pythagoras (c.580 BC - c.500 BC)	BBC Radio 4 - More or Less: Behind the Stats, A groundbreaking new proof for Pythagoras' Theorem?	Math Antics - The Pythagorean Theorem - YouTube
9	Probability	Using probability in real life 10 Examples of Using Probability in Real Life - Statology Probability Tree Diagrams (mathsisfun.com)	Probability in real life Probability Examples. - Bing video Probability Podcast BBC Radio 4 - In Our Time, Probability	Introduction to probability What is probability? - BBC Bitesize The last banana: A thought experiment in probability - TED-Ed Calculating probabilities - KS3 Maths - BBC Bitesize
KS4	Number	The Maths made us: how numbers created civilisation by Michael Brooks The music of the primes – Marcus Du Sautoy	All the numbers https://www.youtube.com/watch?v=5TkIe60y2GI	Hidden Figures Imitation game
KS4	Algebra	Seventeen equations that changed the world – Ian Stewart Fermet's last theorem – Simon Singh	Odd equations https://www.youtube.com/watch?v=8l-La9HEUIU	Proof X+Y A Beautiful Mind
KS4	Geometry	Euclid's Window: The story of Geometry from Parallel lines to Hyperspace by Leonard Mlodinow Excursions in Geometry by C.Stamley Ogilvy	A problem with rectangles https://www.youtube.com/watch?v=VZ25tZ9z6ul https://www.theguardian.com/us-news/2023/mar/24/new-orleans-pythagoras-theorem-trigonometry-prove	The stunning Geometry of the Great Pyramid https://www.youtube.com/watch?v=xE8oJArKGlo Taken 2 – Maps and loci in real life https://youtu.be/HdWpg6rq85o
KS4	Probability	The Monty Hall Problem: Beyond closed doors Hexaflexagons, Probability Paradoxes, and the Tower of Hanoi by Martin Gardner	Derren Brown – The system Probability - https://www.imdb.com/title/tt5593890/?ref=tt_mv_close	21
KS4	Statistics	Moneyball: The Art of winning an unfair game by Michael Lewis	The numbers game – how data is changing football https://www.youtube.com/watch?v=ILcXH_4rwr4	Moneyball
KS5				
KS5				

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