

# KS5 Supercurricular MATHEMATICS

## Google classroom: tsiwgt5



#### Reading



Thinking Better: The Art of the Shortcut, Marcus du Sautoy	978-0008393953
How to Count to Infinity: Little Ways to Live a Big Life, Marcus du Sautoy	978-1786484970
Professor Stewart's Casebook of Mathematical Mysteries, Ian Stewart	978-1846683480
Letters to a Young Mathematician, Ian Stewart	978-0465082322
Seventeen Equations that Changed the World, Ian Stewart	978-1846685323
Another Fine Math You've Got Me Into, Ian Stewart	978-0716723417
Does God Play Dice?, lan Stewart	978-0140256024
From Here to Infinity, Ian Stewart	978-0192832023
The Code Book, Simon Singh	978-1857028898
The Simpsons and Their Mathematical Secrets, Simon Singh	978-1408842812
Fermat's Last Theorem, Simon Singh	978-1841157917
Alex Through the Looking Glass, Alex Bellos	978-1408845721
The Colossal Book of Mathematics, Martin Gardner	978-0393020236
Math Without Numbers, Milo Beckman	978-0141996325
The GCHQ Puzzle Book II	978-0241365434
How to Solve it, George Polya	978-0140124996
How to Study For a Maths Degree, Lara Alcock	978-0199661329
How to Think Like a Mathematician, Kevin Houston	978-0521719780
Makers of Mathematics, Stuart Hollingdale	978-0486450070
Mathematicians: An Outer View of the Inner World, Mariana Cook	978-0691139517
Alan Turing: The Enigma, Andrew Hodges	978-1784700089
The Man Who Knew Infinity, Robert Kanigel	978-0349104522
A Mathematician's Apology, GH Hardy	978-1684221851

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The Man Who Loved Only Numbers, Paul Hoffman	978-1857028294
The Norm Chronicles: Stories and Numbers About Danger, Michael Blastland & David Spiegelhalter	978-1846686214
Solving Mathematical Problems, Terence Tao	978-0199205608
The Pleasures of Counting, TW Körner	978-0521568234
Calculus for the Ambitious, TW Körner	978-1107686748
Logical Labyrinths, Raymond S Smullyan	978-1568814438
What is Mathematics?, Richard Courant & Herbert Robbins	978-0195105193
The Penguin Dictionary of Curious and Interesting Numbers, David Wells	978-0140261493
The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Comlex Systems and Adaptation, Gary W Flake	978-0262561273
Chaos, James Gleick	978-0749386061
Advanced Problems in Mathematics: Preparing for University, Stephen Siklos	978-1783747764
Towards Higher Mathematics: A Companion, Richard Earl	978-1316614839
A Concise Introduction to Pure Mathematics, Martin Liebeck	978-1498722926
A First Course in Mechanics, Mary Lunn	978-0198534334
A Level Mathematics: First Aid Kit, Rose Jewell & Sophie Goldie	978-1510482401

#### Listening

#### More or Less

In Our Time

A History of Britain in Numbers

Infinite Monkey Cage

The Life Scientific

lan Stewart

Nira Chamberlain

Eugenia Cheng

**The Mathematics of Elections** 













#### Oxford University Maths Podcasts: The Secrets of Mathematics

**Desert Island Discs** 

lan Stewart

**David Spiegelhalter** 

Simon Singh's Numbers

Five Numbers
Another Five Numbers
A Further Five Numbers







#### Viewing

#### **Numberphile**

This World: Don't Panic—The Truth About Population

The Joy of Winning

The Joy of Logic

The Joy of Stats

The Joy of Data

Tails You Win: The Science of Chance

Magic Numbers: Hannah Fry's Mysterious World of Maths <u>1: Numbers as God</u> <u>2: Expanded Horizons</u>

3: Weirder and Weirder

















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#### Horizon - Fermat's Last Theorem

The Secret Rules of Modern Living—Algorithms

The Discovery That Transformed Pi

TED Talks (Maths)

Stand-up Maths

London Mathematical Society Popular Lectures

**Dimensions** 

**Oxford Mathematics** 

Royal Institution Christmas Lectures: 2019 - Secrets and Lies (Hannah Fry) 1: How to Get Lucky 2: How to Bend the Rules

3: How Can We All Win?



















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Royal Institution Christmas Lectures: 1997 - The Magical Maze (Ian Stewart)

Royal Institution Christmas Lectures: 1978 - Mathematics into Pictures (Christopher Zeeman) 1: The Curious Incident of the Never-Ending Numbers

2: The Story of the Elusive Shapes

3: The Secret of the Winning Streak

4: The Case of the Uncrackable Code

5: The Quest to Predict the Future

- 1: Sunflowers and Snowflakes
- 2: The Pattern of Tiny Feet
- 3: Outrageous Fortune
- **<u>4: Chaos and Cauliflowers</u>**
- 5: Fearful Symmetry
- 1: Linking and Knotting
- **2: Numbers and Geometry**
- **<u>3: Infinity and Perspective</u>**
- **<u>4: Games and Evolution</u>**
- 5: Waves and Music
- 6: Catastrophe and Psychology







#### Websites



### Geogebra

**Integral** 

**Desmos** 

Autograph







#### **UKMT Senior Mathematical Challenge**

#### Parallel



**National Cipher Challenge** 

#### **Brilliant**



#### **Underground Mathematics**

**Bletchley Park** 



<u>Plus</u>

#### Cut the Knot



#### **Understanding Uncertainty**

**Birmingham University Lectures** 



#### **Oxford Mathematics Alphabet**

#### **STEP Support Program**



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#### @standupmaths



<u>MiKTeX</u>

<u>MacTeX</u>

#### @ColinTheMathmo



<u>Overleaf</u>