

## **Maths – Why Bother videos GCSE**

- **Unit 1: Number**

Place value - [https://www.youtube.com/watch?v=q\\_3x2svPzkM](https://www.youtube.com/watch?v=q_3x2svPzkM)

Estimating - <https://www.youtube.com/watch?v=meOjLJF9F7U>

Multiples - <https://www.youtube.com/watch?v=xyOCgnixiaE>

Positive and negative numbers -

<https://www.youtube.com/watch?v=pbP2bdpT27w>

Operations - <https://www.youtube.com/watch?v=xm0ZgElmZZA>

Powers and roots - <https://www.youtube.com/watch?v=I95Nw1Pwl7c>

Standard form - <https://www.youtube.com/watch?v=gjeoyUHoy3Q>

- **Unit 2: Algebra**

Algebra - <https://www.youtube.com/watch?v=c4xwvFtsrMU>

Sequences - [https://www.youtube.com/watch?v=7Vf6BJwdy\\_0](https://www.youtube.com/watch?v=7Vf6BJwdy_0)

Patterns - <https://www.youtube.com/watch?v=GlspObxnA7w>

- **Unit 3: Interpreting and representing data**

Averages - [https://www.youtube.com/watch?v=SALCargi1\\_0](https://www.youtube.com/watch?v=SALCargi1_0)

Data - <https://www.youtube.com/watch?v=SBPtIAv5CRM>

- **Unit 4: Fractions, Ratio and Percentages**

Whole numbers - <https://www.youtube.com/watch?v=iLoKfB9hFLA>

Fractions - <https://www.youtube.com/watch?v=3pccvFEW00k>

Ratio - <https://www.youtube.com/watch?v=BU9mKlvfxYU>

Percentages - <https://www.youtube.com/watch?v=7EB0H1bhGTo>

- **Unit 5: Angles and Trigonometry**

Angles - <https://www.youtube.com/watch?v=S-Xx22DaOvE>

Pythagoras Theorem -

<https://www.youtube.com/watch?v=KY8rRWvmt5c>

Trigonometry - <https://www.youtube.com/watch?v=v62GGaDpk9Q>

- **Unit 6: Graphs**

Graphs - <https://www.youtube.com/watch?v=JcEHR6O5E6Q>

- **Unit 7: Area and Volume**

Perimeter - <https://www.youtube.com/watch?v=YEW90aDVh-U>

Area - <https://www.youtube.com/watch?v=D8RJUooe9CI>

Circles - <https://www.youtube.com/watch?v=-PGrkZkYSF0>

- **Unit 8: Transformations and Constructions**

Transformations - <https://www.youtube.com/watch?v=ejuJ20JroTo>

Measurement - <https://www.youtube.com/watch?v=8uSmX2zNul0>

- **Unit 9: Equations and Inequalities**

Equations - <https://www.youtube.com/watch?v=BzKMckyLYzk>

Simultaneous Equations -

<https://www.youtube.com/watch?v=z5p8MQSGh0w>

Inequalities - <https://www.youtube.com/watch?v=5sOw5og5sgc>

- **Unit 10: Probability**

Probability - <https://www.youtube.com/watch?v=cJ1QPiGnGEM>

- **Unit 11: Multiplicative reasoning**

Speed - <https://www.youtube.com/watch?v=bM8W7zrggt4>

Distance - <https://www.youtube.com/watch?v=-HJgW6yf1cM>

Time - <https://www.youtube.com/watch?v=54YzxploVy4>

Ratio - <https://www.youtube.com/watch?v=BU9mKlvfxYU>

Proportion - <https://www.youtube.com/watch?v=Mz4nMRtTDCw>

- **Unit 12: Similarity and Congruence**

2D shapes - <https://www.youtube.com/watch?v=Ybe3gKeT7Jo>

3D shapes <https://www.youtube.com/watch?v=0sOpcrywXz0>

Geometry - <https://www.youtube.com/watch?v=b4Shg4r8gng>

- **Unit 13: More Trigonometry**  
Trigonometry - <https://www.youtube.com/watch?v=v62GGaDpk9Q>
- **Unit 14: Further Statistics**  
Statistics - <https://www.youtube.com/watch?v=JqTjXQuXRVY>
- **Unit 15: Equations and Graphs**  
Simultaneous Equations - <https://www.youtube.com/watch?v=z5p8MQSGh0w>  
Quadratic Equations - <https://www.youtube.com/watch?v=QAmbU12zs8c>  
Graphs - <https://www.youtube.com/watch?v=JcEHR6O5E6Q>
- **Unit 16: Circle Theorems**  
Circles - <https://www.youtube.com/watch?v=-PGrkZkYSFO>
- **Unit 17: More Algebra**  
Algebra - <https://www.youtube.com/watch?v=c4xwvFtsrMU>
- **Unit 18: Vectors and geometric proof**  
Vectors - <https://www.youtube.com/watch?v=1M2bOhlqfEA>
- **Unit 19: Proportion and Graphs**  
Proportion - <https://www.youtube.com/watch?v=Mz4nMRtTDCw>  
Graphs - <https://www.youtube.com/watch?v=JcEHR6O5E6Q>

### **Bonus Videos**

Finance – [https://www.youtube.com/watch?v=Yjc\\_VxMMCy8](https://www.youtube.com/watch?v=Yjc_VxMMCy8)

Problem Solving - <https://www.youtube.com/watch?v=430Cs09V2n4>

Symmetry - [https://www.youtube.com/watch?v=WMMV\\_bw17Jzl](https://www.youtube.com/watch?v=WMMV_bw17Jzl)

