Welcome to Mathematics at Tottington High School

Maths is the universal language of the world. We are all mathematicians. To be more numerate is a skill that everyone can keep developing. This will help you experience the power of numbers.









We deliver a maths curriculum that is sequenced to builds up your skills.

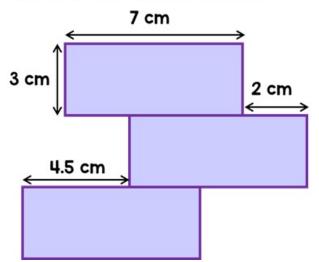
Each unit at KS3 features core knowledge and further develops deeper understanding of the maths concepts that underpin the understanding of future units.



The KS3 curriculum focuses on Fluency, Problem Solving and Reasoning

Problem Solving

Three identical rectangles are arranged to make a shape.



Reasoning

Max says the area of this shape is 22 cm². Explain why Max is wrong. How can he work out the area of the triangle?

2.5 cm 11 cm

What is the perimeter of the shape?



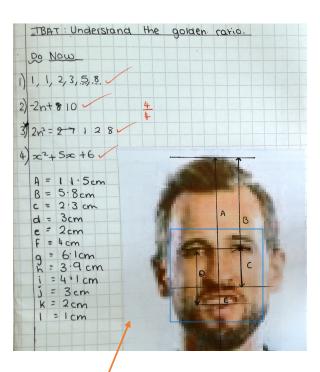


- We want our pupils to be able to solve maths problems that become increasingly more complex.
- To be able to give reasons and explain how to arrive at a solution.
- We explain and use misconceptions to overcome hurdles to progression in maths.

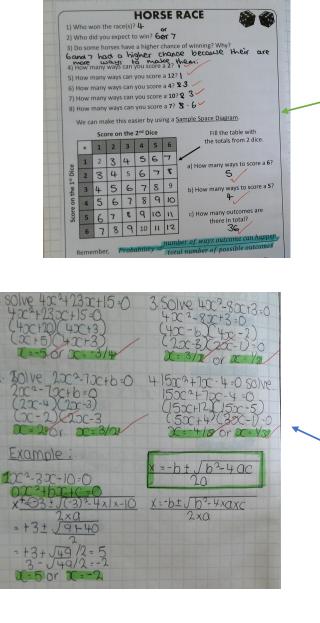






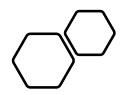


We support pupils understanding of maths by using real life context. This helps them to see the importance of Maths outside of the classroom.

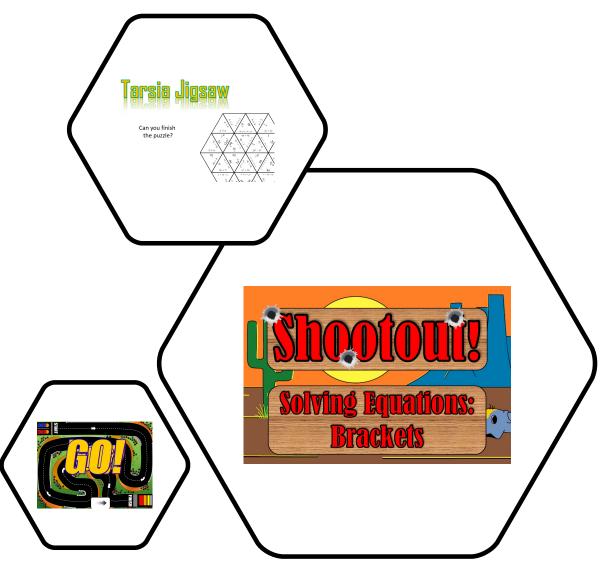


We use MAD (make a difference) time frequently in Maths where pupils improve their work using their red pens.

We develop pupils' confidence in using different methods to solve maths problems .



- We encourage independent learning and quizzes to assess pupils' knowledge of numbers, algebra, geometry, statistics and track your progress.
- We have computer suites to use, to help in the reinforcing and developing of the understanding of key concepts.
- Pupils will experience the power of maths in understanding how the world works though contextualised learning.



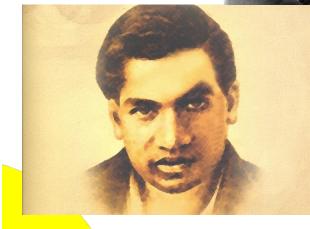




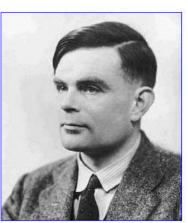












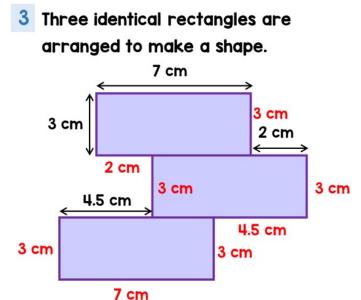






The KS3 curriculum focuses on Fluency, Problem Solving and Reasoning

Problem Solving



What is the perimeter of the shape? 45 cm

Reasoning

Max says the area of this shape is 22 cm². Explain why Max is wrong. How can he work out the area of the triangle?

2.5 cm 4 cm

Max hasn't used the perpendicular height. He should have done $(11 \times 2.5) \div 2 = 13.75 \text{ cm}^2$





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