

Maths

Advanced Number



What will students study?

Students will be building on their previous number knowledge and deepening their skills into new topics.

Topics include:

- ❖ Indices
- ❖ Standard form
- ❖ Percentages
- ❖ Factors, primes and multiples
- ❖ Decimals
- ❖ Fractions

What will homework be?

Homework will be set weekly by the class teacher. The homework is designed to consolidate the knowledge and skills learned in the lesson. Tasks will generally be set from a textbook that will be loaned to a pupil for the duration of the school year and in a designated homework book. Students are expected to revise thoroughly for assessments in addition to homework, using their notes, mathswatch login and knowledge organisers to assist them.

How you can help?

To support your child please use the knowledge organisers to develop topic recall. To assist with homework and understanding of topics, all pupils also have a mathswatch login with details, for example joeb15@hackneynewsc.... has

Username: @joeb15

Password: joeb15

This can be accessed at <https://vle.mathswatch.co.uk/vle/>

CGP revision guides and workbooks are also available to purchase via school money at the discounted rate of £5 for the pair.

Maths

Algebraic Graphs



What will students study?

Students will be introduced to using graphs with algebra.

Topics include:

- ❖ Using brackets
- ❖ Solving linear equations
- ❖ Plotting linear equations
- ❖ Finding the gradient and intercept

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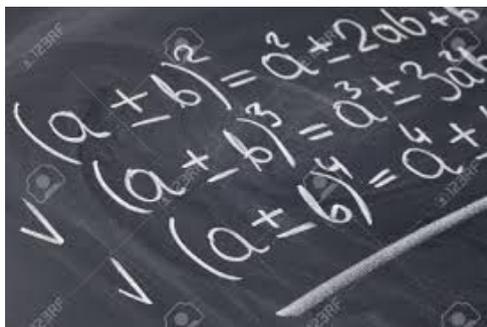
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Maths

Advanced Algebra



What will students study?

Students will be building on their knowledge of algebra to solve more complex problems.

Topics include:

- ❖ Inequalities
- ❖ Sequences
- ❖ Changing the subject of a formula
- ❖ Simultaneous equations

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Statistics



What will students study?

Students will study different ways of presenting and interpreting data.

Topics include:

- ❖ Scatter graphs
- ❖ Averages
- ❖ Cumulative frequency

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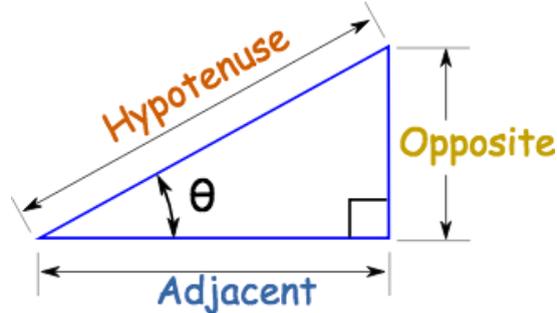
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Maths

Advanced Shape 1



What will students study?

Students will explore topics in geometry.

Topics include:

- ❖ Area
- ❖ Volume and surface area
- ❖ Pythagoras' Theorem
- ❖ Trigonometry

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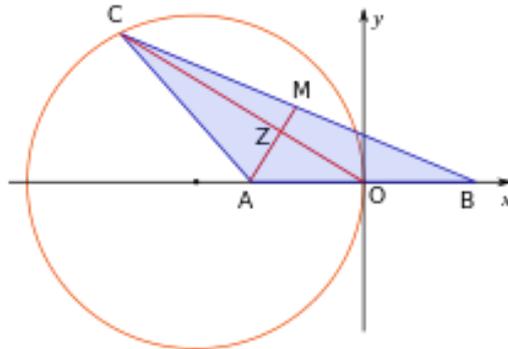
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Maths

Advanced Shape 2



What will students study?

Students will continue to explore new topics in geometry.

Topics include:

- ❖ Loci
- ❖ Similarity
- ❖ Transformations

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