

EASTBURY SUBJECT CURRICULUM

Subject: KS3 Mathematics

Year Groups : Year 7, 8 and 9

Overview

In years 7, 8 and 9 pupils cover the four main areas of Mathematics;

- Algebra
- Geometry
- Shapes & measure,
- Statistics and probability

Our schemes of work ensure that pupils understand basic concepts thoroughly and then build on these skills throughout the year so that they gain a cumulative knowledge. We spend longer on topics so that pupils become fluent in them. The schemes of work are divided into 3 strands, extension, secure and developing depending on a pupil's ability. Whichever strand a pupil follows it is designed to enable our pupils to become

- Fluent in the fundamentals of mathematics, involving varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- Solve problems by applying their mathematics to a variety of routine and non -routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

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Assessment:

An assessment is completed at the end of every term which gives both pupil and teacher the opportunity of knowing areas where improvements are needed in order to progress in their learning.

After assessments, time is dedicated to addressing areas of misconceptions and misunderstanding highlighted by analysis of the assessment.

At the end of every year pupils sit an exam assessing the material covered during the whole year.

Homework and Independent Learning:

Students are given homework once a week, this should take pupils 45 to 60 minutes to complete. Homework can either be written, given on www.mymaths.co.uk, <https://www.pearsonactivelearn.com/> or other mathematics websites.

At the beginning of the year each pupil is assigned a unique username and password, this is used to access to this website. Instant feedback is given and an opportunity to correct mistakes made after studying related material in the learning section of the website.

In addition to homework given pupils are encouraged to study independently going over material covered in school using any of the available websites below.

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YEAR 7

YEAR 8

YEAR 9

[Year 7 Developing](#)

[Year 8 Developing](#)

[Year 9 Developing](#)

[Year 7 Secure](#)

[Year 8 Secure](#)

[Year 9 Secure](#)

[Year 7 Extension](#)

[Year 8 Extension](#)

[Year 9 Extension](#)

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Additional information

Set changes are made approximately every term and are based on pupils' overall contribution, including test scores, classwork, attitude to study and behaviour. Parents/guardians will be notified by letter of any set changes involving their child or children.

Useful resources

Useful websites are listed below:

<http://www.mymaths.co.uk>

<http://nrich.maths.org/frontpage>

<http://www.mathsisfun.com>

<http://www.samlearning.com>

<http://www.mrbartonmaths.com>

<https://www.pearsonactivelearn.com/>

<http://www.hegartymaths.com/>

<https://www.pearsonactivelearn.com/>