

MATHEMATICS

KS3 Curriculum

What does this course involve at Key Stage 3?

Key stage 3 maths is about learning to interconnect mathematical concepts that pupils can move between with ease and fluency. Being able to identify patterns and overlapping concepts in maths topics is key to KS3 progression.

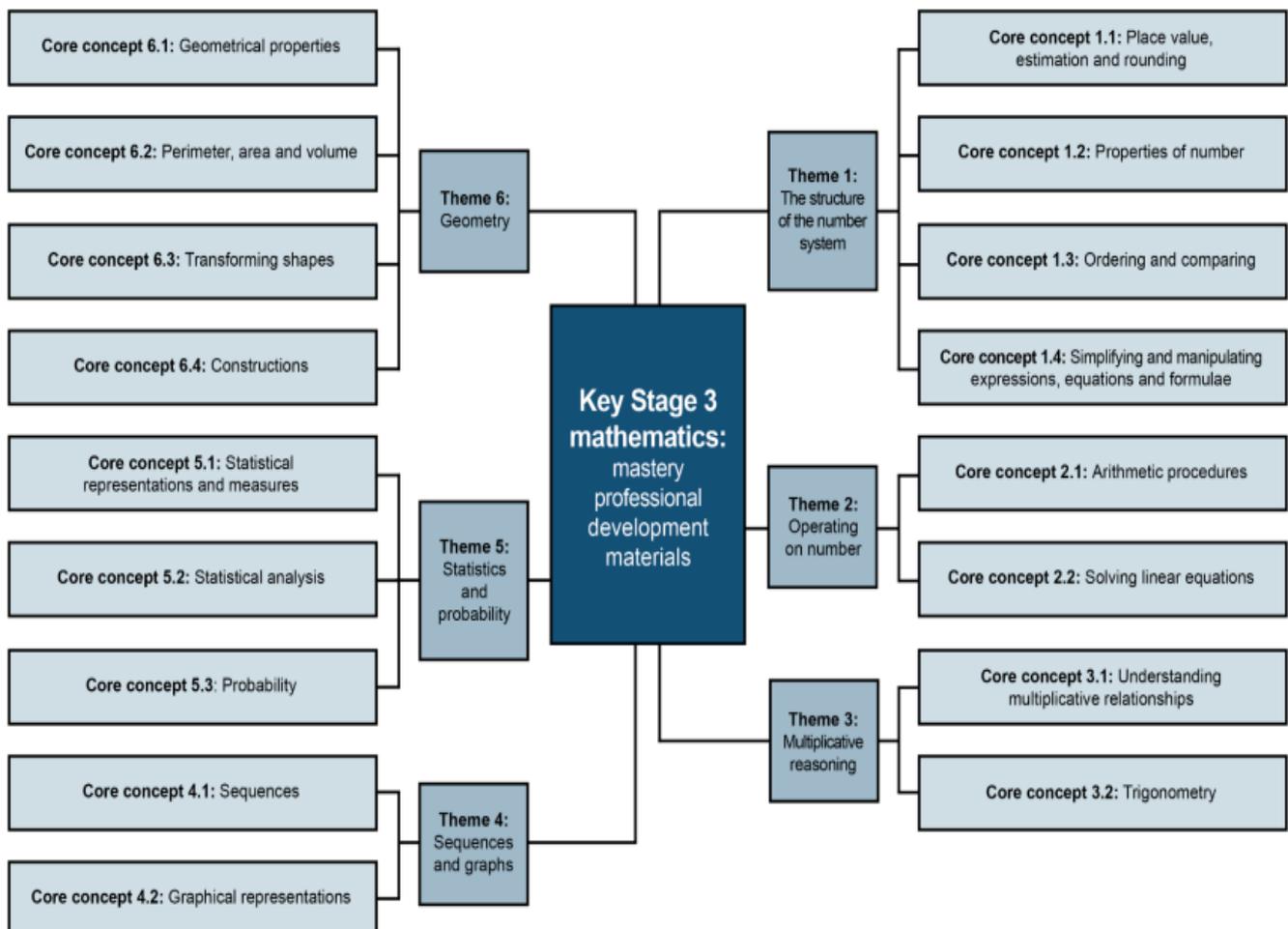
KS3 maths will also help pupils develop their mathematical reasoning and maths problem solving to a higher, more sophisticated level. Students will find that KS3 maths will enter into other subjects, applicable to science, ICT and geography, for example.

Although the maths topics in Years 7, 8 and 9 are presented as distinct from one another in the curriculum, students should be able to make connections across the topics and build upon prior Key Stage 2 knowledge to develop confidence and fluency in maths study.

What do you need to be successful in this course?

To be successful students need to develop fluency, to reason mathematically and to solve problems. Students should be able to apply their mathematics knowledge to non-routine questions. Questions that are not direct towards a methodology for solution, but requires students use application to answer them using the maths they have previously learnt. Finally, students should demonstrate the ability to review and discuss approaches to such questions in class.

KS3 maths topics are formed around 6 main themes:



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Qualification name:

Edexcel GCSE (9-1) Mathematics

Course detail/overview of content:

GCSE Mathematics will follow on from the mathematical skills developed in Key Stage 3. It will allow students to study the 5 areas of Mathematics: Number; Algebra; Statistics and Probability; Geometry and Measures and finally Ratio, Proportion and Rates of Change. Students will be presented with real life problems, helping them to develop their ability to analyse and communicate mathematically.

Nature of assessment

At the end of the course students will have three exams, equally weighted towards the final grade.

Written papers are either at foundation or higher tier:

Foundation tier is targeted at grade 1-5

Higher tier is targeted at grade 5-9

In both tiers Paper 1 is non-calculator

