

KS4 GCSE Maths

Course Specifications

Exam board: Pearson

Course type: Compulsory GCSE

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>

Course Description

Mathematics at Alperton Community School aims to enable students to develop fluent knowledge, skills and understanding of mathematical methods and concepts. A key component of the new curriculum is for students to acquire, select and apply mathematical techniques to solve problems, reason mathematically; make deductions and inferences, and draw conclusions.

A key focus at Key Stage 4 is for students to comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

There are six areas of mathematics that will be assessed:

1. Number
2. Algebra
3. Ratio, Proportion and Rates of change
4. Geometry and Measures
5. Statistics
6. Probability

Skills & Abilities

There is a great demand on problem solving in Maths GCSE and teaching focuses on this. We expect students to be able to tackle these questions in a more confident manner. In order to support their independent learning, we provide students access to MyMaths, Mathswatch and all students can access the online GCSE textbook.

Assessment

Assessment in mathematics is via 100% examination at the end of Year 11. Due to the increase in content, **there will be 3 exam papers**

- 1 Non-calculator paper
- 2 Calculator papers

each lasting 90 minutes and worth 80 marks.

Careers & Progression

Progression

This qualification prepares students for progression to further study of mathematics at AS and A level. These Level 3 qualifications prepare students for a variety of further progression routes.

Students can also progress from this qualification to Level 3 qualifications in numerate disciplines, such as:

- A Levels in the sciences
- A Level Geography 🏠 A Level Psychology
- A Level Economics
- other qualifications that require mathematical
- skills, knowledge and understanding

Careers

While maths is a fundamental subject for much of science and technology, numerous other routes can be taken.

Jobs directly related include: *Aerospace engineer; Higher education lecturer; Investment analyst; Meteorologist; Research scientist (maths); Secondary school teacher; Statistician.*

Jobs where maths would be useful include: *Actuary; Chartered accountant; Chartered management accountant; Corporate investment banker; Financial risk analyst; Operational researcher; Systems developer.*

Guidance & Advice

Pearson GCSE 9-1 Maths (Higher and Foundation)

Pearson Active Learn (school log in)

Mathswatch (school log in)

VIP zone

Past Exam Papers