

# MATHEMATICS

Mathematics is a core subject that all students study.

## Assessment

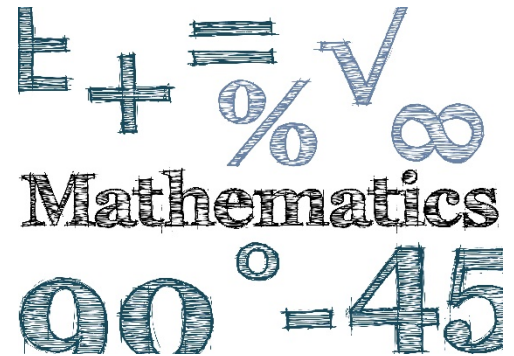
Examination board: Edexcel

Examinations: Three papers (no coursework)

- 67% calculator allowed
- 33% non-calculator

## Two tiers

Foundation (Grades 1 to 5)      Higher (Grades 3 - 9)



## Syllabus content

### *Using and applying mathematics*

- Make and monitor decisions to solve problems;
- Communicate mathematically;
- Develop skills of mathematical reasoning.

### *Number and algebra*

- Using and applying number and algebra;
- Understanding place value and the decimal number system;
- Numbers and the number system;
- Understand and use the relationship between numbers;
- Solve numerical problems;
- Understand and use equations, formulae and identities;
- Use sequences, functions and graphs.

### *Shape, space and measure*

- Understand and use properties of shape;
- Understand and use properties of position, movement and transformation;
- Understand and use measures;
- Use and locate co-ordinates.

### *Handling data*

- Collect, process, represent and interpret data;
- Estimate and calculate the probability of events.

## Careers that mathematics is useful for:

Statistician, scientist, sales representative, pharmacist, armed forces, motor mechanic, medicine, law, engineering, teaching, business, banking, accountancy, office work, tax officer builder, retail.

This subject is a compulsory GCSE.