Subject: Mathematics (Edexcel)

Teacher responsible for the subject: Mr Rollison

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City of Norwich School
An Ormiston Academy | *Excellence in all*

This course covers the following topics throughout the two years:

YEAR 1: 1) Geometrical reasoning, 2) Fractions, decimals, percentages, 3) Place value, ordering and rounding integers, powers and roots, 4) Expressions, equations, formulae and identities, 5) Functions and Graphs, 6) Sequences, 7) Collecting and interpreting data, 8) Construction, loci, measures and mensuration, 9) Mental and written calculations, 10) Probability, 11) Transformations, 12) Representing and Interpreting data

YEAR 2: 1) Place value, ordering and rounding integers, powers and roots, 2) Expressions, equations, formulae and identities, 3) Geometrical reasoning, 4) Ratio and proportion, 5) Functions and Graphs, 6) Construction, loci, measures and mensuration, 7) Further functions, 8) Further Geometrical reasoning

The teachers say: "We love teaching this course because:

It develops pupils problem solving skills. Mathematics builds up a child's ability to come up with a plan and strategies to solve problems. It is an important skill that they can practice throughout their life and from a very early age. It is the only true universal language that can take you from counting on your fingers to travelling to the stars and beyond.

The students say: "We enjoy this course because:
We love maths because it is everywhere and everyday,
We love maths because it is beautiful,
We love maths because there are many different ways to get the correct answer,
We love maths because it makes our brains work,
We love maths because it is right or wrong.

Our recommended Revision Resources:

REVISE Edexcel GCSE (9-1) Mathematics Foundation Revision Guide & Workbook.

REVISE Pearson Edexcel GCSE (9-1) Mathematics Higher tier Revision Guide & Workbook.

CorbettMaths Revision cards. 93 detailed, engaging revision cards for GCSE Maths. Sets of cards are available for Higher & Foundation tier.

Each card has its own supporting video tutorial and practice questions/answers. All are available for purchase from the school at a discounted price.

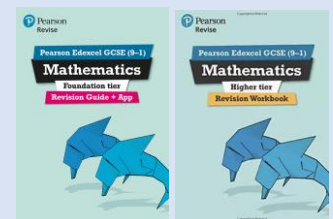## What future pathways might be open to me if I study Mathematics?

The study of mathematics is a basic requirement for many jobs and can lead to careers that are exciting, challenging, and diverse in nature; Nursing, Business, Commerce, Technology, Engineering and Teaching.

Mathematics plays a vital role in modern life and is an important 'life skill' in itself. Many employer surveys highlight the shortage of job applicants with adequate mathematics skills and a significant number of careers now demand a proven, certificated ability in mathematics as a basic entry requirement.