Subject: **GCSE 9-1 Mathematics**

Examination Board	Edexcel
Specification Number	1MA1
Teacher responsible	Mr Dahmani

Introduction

The course covers material across four main topics, number, algebra, shape and data. Within each discipline there are calculator and non-calculator elements. The course will begin by working through number systems, fractions, decimals and percentages and progress to algebraic equations, formulae, graphs and functions. You'll also explore geometry and discover ways to calculate the qualities of various shapes and work out areas. You will learn to collect and assess mathematical data and to use it to solve specific problems and interpret and assess the results. Through studying this course you will learn that it is about more than numbers: it's about thinking logically and being able to apply the principles you learn to everyday situations.

Course Content

Over the two or three year GCSE you will develop your logic and problem solving skills covering these key areas:

- Number
- Algebra
- Ratio, proportion and rates of change
- Geometry and measures
- Probability
- Statistics

Each of these areas will be taught following basic skills audits to ascertain current knowledge and understanding. Knowledge gaps will then be identified and rectified to ensure all students have a strong core foundation in the particular topic and are then able to stretch their potential and access the highest grades.

Assessment

The qualification consists of three equally-weighted written examination papers at either Foundation tier or Higher tier. All three papers must be at the same tier of entry and must be completed in the same assessment series. The content outlined for each tier will be assessed across all three papers.

Paper 1 is a non-calculator assessment and a calculator is allowed for Paper 2 and Paper 3.

Each paper is 1 hour and 30 minutes long and has a maximum of 80 marks allocated to it.

The tier of entry will determine the achievable grade range:

- Foundation tier - grades 1 to 5
- Higher tier grades – 4 to 9 (grade 3 allowed)

Progression

This qualification prepares students for progression to further study mathematics at AS and A level and strongly supports the engineering and construction curriculum.

GCSE Mathematics is a requirement for progression to a wide range of courses at Level 3. Students are expected to continue with their study of GCSE Mathematics after the age of 16 if they have not achieved a minimum of Grade 4 at Key Stage 4.