



ST CHRISTOPHER'S SIXTH FORM

# MATHEMATICS

BRIDGING UNIT

# Mathematics

## Introduction

The A-level course studied at St Christopher's will follow the Edexcel syllabus that can be found online. You may wish to download the specification from the Edexcel website to view the specification material in more detail:

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>

## Content and Assessment Overview

The Pearson Edexcel Level 3 Advanced GCE in Mathematics consist of three externally-examined papers.

Students must complete all assessment in May/June in any single year.

**Paper 1: Pure Mathematics 1 (\*Paper code: 9MA0/01)**

**Paper 2: Pure Mathematics 2 (\*Paper code: 9MA0/02)**

**Each paper is:**

- 2-hour written examination
- 33.33% of the qualification
- 100 marks

**Content overview**

- Topic 1 – Proof
- Topic 2 – Algebra and functions
- Topic 3 – Coordinate geometry in the (x, y) plane
- Topic 4 – Sequences and series
- Topic 5 – Trigonometry
- Topic 6 – Exponentials and logarithms
- Topic 7 – Differentiation
- Topic 8 – Integration
- Topic 9 – Numerical methods
- Topic 10 – Vectors

**Assessment overview**

- Paper 1 and Paper 2 may contain questions on any topics from the Pure Mathematics content.
- Students must answer all questions.
- Calculators can be used in the assessment.

### Paper 3: Statistics and Mechanics (\*Paper code: 9MA0/03)

- 2-hour written examination
- 33.33% of the qualification
- 100 marks

#### Content overview

##### Section A: Statistics

- Topic 1 – Statistical sampling
- Topic 2 – Data presentation and interpretation
- Topic 3 – Probability
- Topic 4 – Statistical distributions
- Topic 5 – Statistical hypothesis testing

##### Section B: Mechanics

- Topic 6 – Quantities and units in mechanics
- Topic 7 – Kinematics
- Topic 8 – Forces and Newton's laws
- Topic 9 – Moments

#### Assessment overview

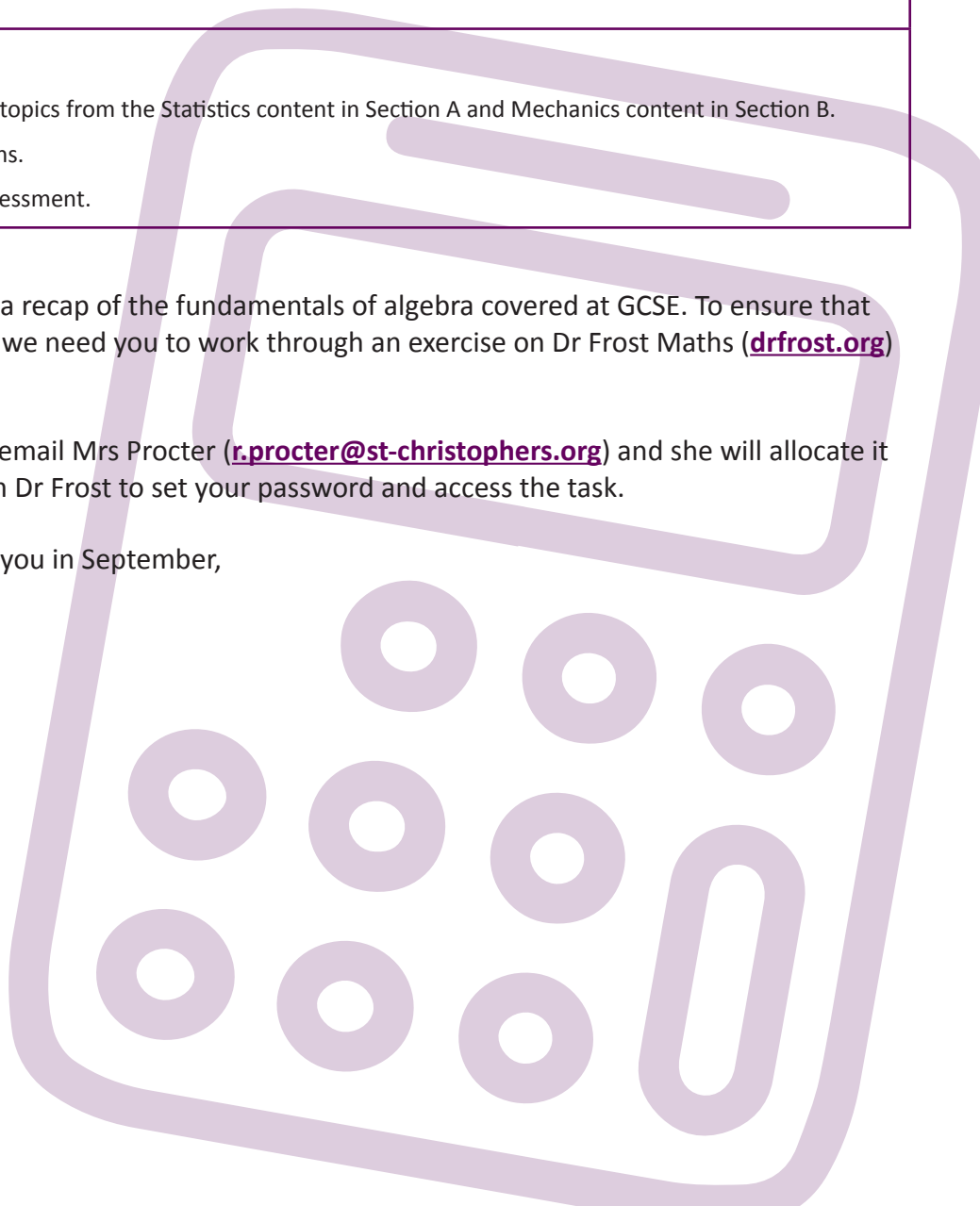
- Paper 3 will contain questions on topics from the Statistics content in Section A and Mechanics content in Section B.
- Students must answer all questions.
- Calculators can be used in the assessment.

The AS Maths course begins with a recap of the fundamentals of algebra covered at GCSE. To ensure that you are familiar with these ideas, we need you to work through an exercise on Dr Frost Maths ([drfrost.org](http://drfrost.org)) over the summer.

To gain access to the task, please email Mrs Procter ([r.procter@st-christophers.org](mailto:r.procter@st-christophers.org)) and she will allocate it to you. Look out for an email from Dr Frost to set your password and access the task.

Enjoy your summer and we'll see you in September,

**Mrs Procter**





**“For I know the plans I have for you,” declares the Lord,  
“plans to prosper you and not to harm you,  
plans to give you hope and a future.”**

Jeremiah 29:11

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