

The Friary Sixth Form



A Level Maths Summer Project Pack 2023

Summer Tasks



When you return in September you will have assessments. The questions will be based on the topics covered in these Summer Tasks. This will be excellent preparation for your assessments.

Task 1

Review of Y13 Topics Taught in Y12 – Further Statistics

We would like you to complete the following tasks consolidating the Y13 Further Stats work you have done. These are in the Red FS1 book. Please check these and keep evidence.

- Geometric and Negative Binomial Distributions (Mixed Exercise 3 p55-56 All Questions)
- Geometric Distribution Hypothesis Testing (Mixed Exercise 4 p72-74, Q3-4, Q10, Q12)
- Chi Squared Testing for Geometric Distributions (Mixed Exercise 6 p126 Q16-17)

Task 2

Review of Y13 Topics Taught in Y12 – Further Mechanics

We would like you to complete the following tasks consolidating the Y13 Further Mechanics work you have done. These are in the Orange FM1 book. Please check these and keep evidence.

- Momentum as a Vector (Mixed Exercise 1 p13 Q9-12)
- Elastic collisions in 2D (Mixed Exercise 5 p115-118 All Questions)

Task 3

Review of Y12 Core Pure Topics and Exam Practice

Complete the following papers. The first is a practice paper from Crash Maths website on Pure Core. The second is an Edexcel 2020 Core Pure AS paper.

You have links to the papers and the mark schemes.

We will need evidence in September that these have been done and checked.

Core Pure Crash Maths AS Practice Paper

Questions

<https://crashmaths.com/wp-content/uploads/2018/09/AS-FM-BRONZE-CP1-B.pdf>

Mark Scheme

<https://crashmaths.com/wp-content/uploads/2018/09/AS-FM-BRONZE-CP1-B.pdf>

Core Pure Edexcel 2020 AS Paper

Questions

<https://mathsmadeeasy.co.uk/wp-content/uploads/2022/01/Edexcel-AS-October-2020-Further-Maths-Paper-1.pdf>

Mark Scheme

<https://mathsmadeeasy.co.uk/wp-content/uploads/2022/01/Edexcel-AS-October-2020-Further-Maths-Paper-1-MS.pdf>

These assignments are due in by Friday 8th September.