

## Exam Information Sheet

Year: 11 Subject: FSMQ Additional Maths

### When are exams being held for this subject?

Friday 23<sup>rd</sup> June (PM) - 2 hours

### What topics will be examined?

Algebra – polynomial division, factor theorem, completing the square, simplifying algebraic fractions, recurrence relationships, inequalities

Enumeration – probability, permutations and combinations, binomial expansion and distribution

Coordinate geometry- finding equations of lines, circles, normal, tangents, applications in linear programming (inequalities)

Pythagoras and trigonometry – sine and cosine rule, trigonometric identities, solving trigonometric equations, apply trig to 2D and 3D-modelling

Calculus – integration and differentiation, application to kinematics

Numerical Methods – solving equations & finding roots, gradients of tangents, area under a curve

Exponentials and logarithms – sketching log graphs, use the laws of logarithms, solving equations with logarithms, reduction to linear form

### What other information is available for this exam?

*You will also have the GCSE higher tier formula sheet available for use during the exam. Link here*

<https://www.ocr.org.uk/Images/673220-formulae-sheet.pdf>

### What will be covered in lessons leading up to the exam?

Week Commencing	Lesson Content	Homework Focus
21 <sup>st</sup> March	Statistics	Statistics past paper
28 <sup>th</sup> March	Linear inequalities and Kinematics	Statistics past paper
4 <sup>th</sup> April	Statistics	Based on student need
25 <sup>th</sup> April	Circle geometry	Based on student need
2 <sup>nd</sup> May	Revision	Based on student need
9 <sup>th</sup> May	Revision	Based on student need

### Where can I access revision materials online?

Resource Name/Information	Link	Login Details
Bareu Maths youtube channel contains videos to explain every topic on the course.	<a href="https://www.youtube.com/channel/UCf9vZfwYNsTLyU2I9JnAouw/videos">https://www.youtube.com/channel/UCf9vZfwYNsTLyU2I9JnAouw/videos</a>	n/a
Integral maths	<a href="https://integralmaths.org/">https://integralmaths.org/</a>	Eg. for John Smith Login: 2149AM-jsmith Password: changeme
Past papers	<a href="https://www.ocr.org.uk/qualifications/fsmq/additional-mathematics/assessment/">https://www.ocr.org.uk/qualifications/fsmq/additional-mathematics/assessment/</a>	n/a

### When are revision sessions being held in school?

Weekly Session 6 (Day/Time): Most Mondays after school, 3.15pm-4pm G27 (see Edulink)

Easter Holiday (Day/Time): Thursday 13<sup>th</sup> April, 11:00am-12:30pm

Whitsun Holiday (Day/Time): Thursday 1<sup>st</sup> June, 11:00am-12:30pm



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