

Level 3 FSMQ

Additional Mathematics




Formulae sheet top tips

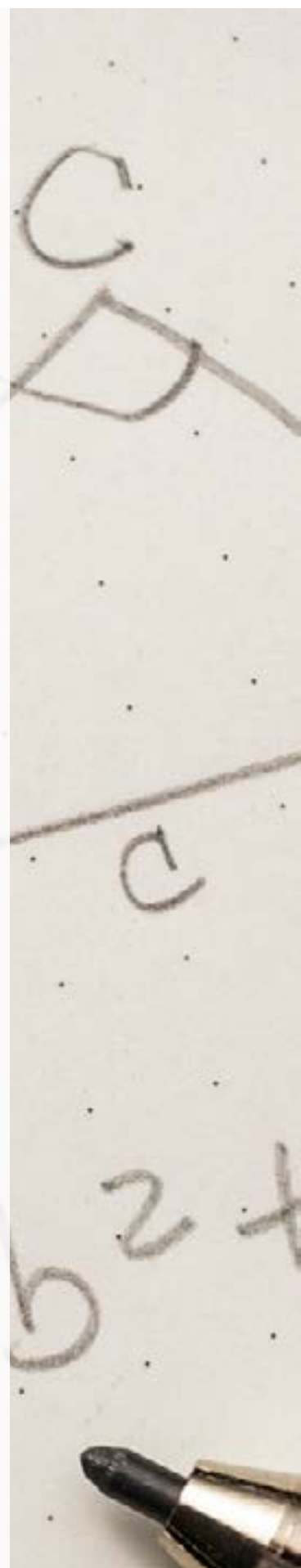
If you're sitting Level 3 FSMQ: Additional Mathematics (6993), you will now get an extra formulae sheet to use in your exam. You will have this in addition to the standard formulae sheet included on page 2 of your question paper. Here are some of our tips for using the formulae sheets, both **before the exam** and **when you're sitting the exam** too!

1 Before the exam, make sure you **practise answering questions using both formulae sheets**. This will help you to remember what is on each sheet and where on the sheet each formula is. It will also help you find out if there are any formulae you find tricky to use, so you can then practise them a bit more.

- The standard formulae sheet on page 2 of the question paper has the binomial series and expansion, the trapezium rule and the kinematic formulae for variable and constant acceleration motion.
- The extra formulae sheet for the FSMQ includes the same formulae as on the 2024 formulae sheet for Higher tier GCSE (9-1) Maths. It includes formulae for perimeter, area and volume of several shapes, the quadratic formula, Pythagoras's theorem, trigonometry, compound interest and probability.

2 Make sure you **practise using formulae with different types of questions**. For example, make sure you practise which questions to use Pythagoras' theorem with and which questions to use the trigonometry formulae with.

- In the exam, shapes might be drawn any way up. For example, the right-angled triangle on the formulae sheet looks like  , but in the exam you might be given a right-angled triangle that looks like  , or  , or any other way up. Make sure you practise labelling shapes and using the formulae when shapes are different ways up.
- Remember a question might require you to use Pythagoras' theorem in 3D. A quick sketch of the shape you're focussing on, clearly labelled with the known angles and lengths, will help you put the right numbers in the right place when using the theorem.



3 Equally as important as knowing what is on the formulae sheet is **knowing what is not on it!**

- Make sure you still **memorise formulae you might need that aren't included on the formulae sheet**. For example, formulae for area of a rectangle, area of a parallelogram and rules for indices and logarithms.
- Think about whether you can use any formulae on the sheet to help you recall other formulae you need to memorise. For example, the formulae sheet includes the formula for calculating the volume of a prism. Can this help you recall the formula for the volume of a cylinder?

4 In the exam, make sure you place the extra formulae sheet on your desk somewhere that you can see it. **Don't** hide it underneath your question paper where you might forget about it!

5 In the exam you will get brand new copies of both formulae sheets. These are yours to use as you wish in the exam, so **if you wish to amend them**, do so! For example, you might like to draw a quick diagram of a trapezium to help you use the area of a trapezium formula. If you prefer a formula to use a different letter for a variable than is used on the sheets, cross it out and replace it with the letter you're happier with.

- Remember though that the examiner won't look at your formulae sheets, so **don't write any question working or answers on them!** Make sure you write your working and answers in the spaces provided on the question paper.



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