



# Supporting your child through their Maths GCSE

## Higher

revision  
tips

### The Maths Exams

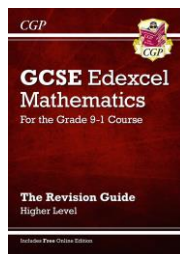
| Paper                                 | Paper          | Length  | %   | Date     |    |
|---------------------------------------|----------------|---------|-----|----------|----|
| 1                                     | Non Calculator | 90 mins | 33  | 20/05/22 | AM |
| 2                                     | Calculator     | 90 mins | 33  | 07/06/22 | AM |
| 3                                     | Calculator     | 90 mins | 33  | 13/06/22 | AM |
| Edexcel Award in Algebra (Set 1 only) | Non Calculator | 2 hours | 100 | 10/5/22  | AM |

### **Useful websites:**

- [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)
- [www.vle.mathswatch.co.uk](http://www.vle.mathswatch.co.uk)

### Revision Guides

Revision guides can be a useful resource to support revision of topics at a glance with practice questions. The Priory School Maths department recommends the CGP revision guides.



### Supporting with Revision

Revision is vital for all students but it can lead to a great deal of stress and anxiety. We've included some tips below for parents:

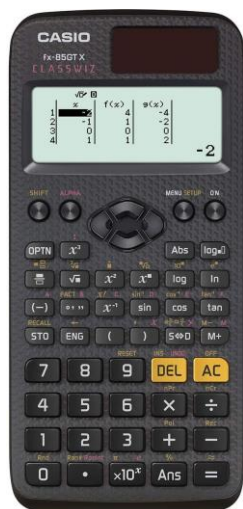
- Encourage your child to start revision early.
- Encourage your child to be organised and use a revision timetable. Plan in advance which specific topics they are going to revise.
- Creating flash cards that summarise a key topic can be effective in memorising key formulas and methods.
- Encourage your child to use a revision guide/website link from below.
- Check that they complete their homework. Their Homework will usually consist of completing exam questions which is one of the best forms of revision.
- Your child needs to memorise many formulas, get them to write different formulas on post-it notes and then stick them around the house.
- The more past exam papers that they work through, the more their exam technique will improve
- Encourage them to show all their working out clearly. This can significantly affect how many marks they obtain.

### Maths Equipment

It is essential that students have the correct equipment for their GCSE Examinations. For GCSE Maths they will require the following:

Black pen, pencil, ruler, eraser, protractor, pair of compasses and calculator (for paper 2 and paper 3)

A Scientific calculator is necessary for two of the papers and we advise the Casio fx-85GTX Scientific Calculator which can be purchased from various stores and online



| Number                                                                                                                                                                                                                                                                                                                                                                               | Ratio                                                                                                                                                                                                                                                                                                                                                                     | Algebra                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Geometry                                                                                                                                                                                                                                                                                                        | Probability                                                                                                   | Statistics                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Paper 1</b> <ul style="list-style-type: none"> <li>• <b>Fraction of an amount</b></li> <li>• <b>Fraction arithmetic</b></li> <li>• Recurring decimal to fraction</li> <li>• <b>Product of prime factors</b></li> <li>• Negative and fractional indices</li> <li>• Simplification of surds</li> <li>• <b>Standard Form</b></li> <li>• <b>conversion and calculation</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Percentage of an amount</b></li> <li>• <b>Write as a ratio, share in a ratio</b>, use of ratio, ratio to fraction</li> <li>• Equations of proportion</li> <li>• <b>Density</b></li> </ul>                                                                                                                                     | <ul style="list-style-type: none"> <li>• <b>Simplification</b></li> <li>• Expansion of brackets</li> <li>• Algebraic fractions</li> <li>• <b>Linear inequality</b></li> <li>• Form an equation</li> <li>• <b>Quadratic equation</b></li> <li>• Equation of a tangent to a circle</li> <li>• <b>Quadratic graph</b></li> <li>• Speed-time graph</li> <li>• Gradients of parallel and perpendicular lines</li> <li>• Gradient of a curve</li> </ul>                                    | <ul style="list-style-type: none"> <li>• <b>Angles in a polygon</b></li> <li>• Area of a triangle</li> <li>• <b>Volume of a cube</b></li> <li>• Surface area of a cuboid</li> <li>• Area of a sector</li> <li>• Pythagoras's Theorem</li> <li>• <b>Exact trig. values</b></li> <li>• Vector geometry</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Probability</b></li> <li>• Independent combined events</li> </ul> | <ul style="list-style-type: none"> <li>• Cumulative frequency</li> <li>• Mean</li> <li>• Interquartile range</li> </ul>                                                |
| <b>Paper 2</b> <ul style="list-style-type: none"> <li>• <b>Error interval</b></li> <li>• Calculator use</li> </ul>                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• <b>Area</b></li> <li>• <b>Depreciation</b></li> <li>• <b>Use of ratio</b></li> <li>• <b>Direct proportion</b></li> <li>• <b>Currency conversion</b></li> <li>• Inverse proportion</li> <li>• Pressure</li> </ul>                                                                                                                 | <ul style="list-style-type: none"> <li>• <b>Simplification</b></li> <li>• Expansion of bracket</li> <li>• Factorisation</li> <li>• <b>Laws of indices</b></li> <li>• Linear equation</li> <li>• Equations of parallel lines</li> <li>• Form an equation</li> <li>• Quadratic inequality</li> <li>• <b>Coordinates</b></li> <li>• Transformations of functions</li> <li>• Graphs of trigonometric functions</li> <li>• Inverse and composite functions</li> </ul>                     | <ul style="list-style-type: none"> <li>• <b>Transformations</b></li> <li>• Circle theorems</li> <li>• <b>Area of a rectangle</b></li> <li>• Volume of composite solid</li> <li>• Sine and Cosine Rules</li> </ul>                                                                                               | <ul style="list-style-type: none"> <li>• Venn diagram</li> <li>• Probability from a Venn diagram</li> </ul>   | <ul style="list-style-type: none"> <li>• Box plot</li> <li>• Lower and upper quartiles</li> <li>• Compare distributions</li> <li>• Capture-recapture method</li> </ul> |
| <b>Paper 3</b> <ul style="list-style-type: none"> <li>• <b>Negative number</b></li> <li>• Laws of indices</li> <li>• Bounds</li> <li>• Product rule for counting</li> </ul>                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• <b>Time</b></li> <li>• <b>Percentage decrease</b></li> <li>• Depreciation</li> <li>• <b>Reverse percentage</b></li> <li>• <b>Write as a ratio</b></li> <li>• <b>1 : n form</b></li> <li>• Share in a ratio</li> <li>• <b>Direct proportion</b></li> <li>• <b>Average speed</b></li> <li>• General iterative processes</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Simplification</b></li> <li>• <b>Expansion of bracket</b></li> <li>• <b>Substitute values</b></li> <li>• Difference of two squares</li> <li>• Expansion of brackets</li> <li>• <b>Change subject of a formula</b></li> <li>• <b>Forming an expression</b></li> <li>• Algebraic fractions</li> <li>• Set up and solve equation</li> <li>• Simultaneous equations linear/quadratic</li> <li>• Gradient of a straight line graph</li> </ul> | <ul style="list-style-type: none"> <li>• Circle theorems</li> <li>• <b>Area of a trapezium</b></li> <li>• Similar triangles</li> <li>• <b>Pythagoras theorem</b></li> <li>• Trigonometry</li> <li>• Trigonometry in 3-D</li> <li>• Column vectors</li> </ul>                                                    | <ul style="list-style-type: none"> <li>• Dependent combined events</li> </ul>                                 | <ul style="list-style-type: none"> <li>• <b>Frequency polygon</b></li> <li>• Histogram</li> </ul>                                                                      |