

*Year 9 Exams*  
*Maths*  
*Revision*  
**HIGHER**

NAME: .....

MATHS GROUP: .....

MATHS TEACHER: .....

# Maths Revision Tips

- **The only way to revise maths is to do Maths.** Some time spent making notes can be useful but most of your time must be spent actually answering questions. You can find questions to do in your exercise book, in revision guides, past GCSE papers and online revision sites. Make sure you can check your answers to make sure you are using the correct methods.

<https://keshmaths.com/gcse-maths-takeaway-3/> has past exam questions sorted by topic, with answers.

- **Start with the topics you find the most difficult.** It's tempting to start on the topics you like but this is likely to be a waste of time.
- **Get help if you don't understand something.** If you don't get help with a difficult topic when revising you won't be able to answer a question on that topic if it comes up in the exams. Get help from whoever is at home or your Maths teachers. You can also look things up in your revision guide.
- **Use MyMaths to help you.** Log in to MyMaths using

**login: southam**

**Password: integer1**

Use the options on the left of the screen to search for the topic you need help with. You can then click on "lesson" to learn about a topic or "online homework" to answer questions and have your answers marked.

- **Practice using your calculator.** All calculators are different. Make sure you know how to enter fractions, powers, square and cube root on yours.
- **Use Pixl Maths app to help you.** Log in by using

**login: yourlastnamefirstname**

**Password: yourlastnamefirstname**

Click on take a test to search for the topic you need help with. You can then click on "video" or "powerpoint" to help you answer the questions and have your answers marked.

You may be tested on the following topics:

### **Unit 1: Number**

- BODMAS
- Rounding to decimal places and significant figures
- Find the HCF and LCM of two numbers (including prime factorisation)
- Find powers and roots (including index laws for negative and fractional indices)
- Standard form
- Surds

### **Unit 2: Algebra**

- Indices rules
- Expand brackets (including double brackets)
- Factorise algebraic expressions (including quadratics)
- Solve equations, including those involving brackets and numerical fractions
- Substitute numbers into formulae and expressions
- Rearrange formulae
- Sequences

### **Unit 3: Interpreting and Representing Data**

- Work out mean, mode, median and range from a list of numbers and from frequency tables
- Pie charts, stem and leaf diagrams, frequency polygons, time series graphs
- Scatter graphs
- Construct and use two-way tables

#### **Unit 4: Fractions, Ratios and Percentages**

- Add, subtract, multiply and divide fractions and mixed numbers
- Find the reciprocal of an integer, decimal or fraction
- Simplify ratios
- Share an amount in a ratio and find quantities using ratios
- Work out percentage increases and decreases, including compound interest
- Convert a recurring decimal to a fraction

#### **Unit 5: Angles and Trigonometry**

- Recall angle facts, including angles in parallel lines
- Find missing angles in triangles, quadrilaterals and at a point
- Interior and exterior angles of a polygon
- Pythagoras theorem