Southam College

Mathematics Department

Year 9 Exams Maths Revision FOUNDATION

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
- Estimating answers by rounding to one significant figure
- Add, subtract, multiply and divide with whole numbers and decimal numbers
- Factors and multiples, including HCF, LCM and product of prime factors
- Square roots and cube roots
- Laws of indices

Unit 2: Algebra

- Simplify by collecting like terms
- Multiply and divide expressions
- Use the index laws with algebra
- Substitute numbers into expressions and formulae
- Expand brackets
- Factorise algebraic expressions

Unit 3: Graphs, Tables and Charts

- Tally charts
- Design and use two-way tables
- Comparative and composite bar charts, line graphs, time series graphs
- Stem and leaf and back-to-back stem and leaf diagrams
- Pie charts
- Scatter graphs, including correlation and line of best fit

Unit 4: Fractions and Percentages

- Equivalent fractions and writing fractions in their simplest form
- Mixed numbers and improper fractions
- Add, subtract, multiply and divide fractions and mixed numbers
- Multiply and divide a whole number by a fraction
- Find a fraction of an amount
- Convert between fractions, decimals and percentages
- Find a percentage of a quantity and percentage increase and decrease

Unit 5: Equations, Inequalities and Sequences

- Linear equations, including those with brackets and letters on both sides of the equals sign
- Inequalities, including representing inequalities on a number line
- Substitute values into formulae and expressions
- Change the subject of a formula
- Sequences