



MATHEMATICS

Year 8 Curriculum



Your Year 8 study of Maths continues from your Year 7 and you are likely to be in the same Maths set. You will now be confident both with and without a calculator and make sensible decisions on when to use it. Your Maths tests will continue to check your progress in Maths understanding. It is important that you think hard about the Maths that you are studying and make sure you really understand and that you are not just doing a technique that you have been told works!

This year you will explore the following **key** aspects of Maths:

- Number: indices, decimals, fractions, %, order of operations, problem solving.
- Geometry & Measures: Units of area & volume, angles, constructions, transformations.
- Ratio & Proportion: ratio problem solving, linking fractions, decimals and percentages
- Algebra: Formal notation, substitution, simplifying, expanding and factorising, solving equations, sequences and graphs.
- Statistics & Probability: Collecting, processing and representing grouped data, probability and sets.

You will practise the following skills throughout the year:

- Having a go, even when unsure
- Logical thinking
- Processing
- Resilience

You will link your Maths to topics in Real Life using Case study starting points:

- Energy in the Home
- Patchwork
- Food Crops
- Perspective
- Free Range

Use the checklist below to ensure that your answers are successful:

- ✓ 1. Read the question again- have you answered everything?
- ✓ 2. Show clear working – work systematically
- ✓ 3. Check the units
- ✓ 4. Understand the keywords
- ✓ 5. Ask for help when needed
- ✓ 6. Identify the key points in the question
- ✓ 7. Is it a sensible answer?
- ✓ 8. Do you need a diagram?
- ✓ 9. Analyse and understand your mistakes
- ✓ 10. Have a go!

Use your MyMaths account for some homeworks and revision.

Make sure your homework is completed on time and to the best of your ability.

If you are stuck, remember to read the information pages in your textbook and go through the Lessons on MyMaths.

There will be Maths tests spread throughout the year. For these, your teacher will tell you what to revise, support your revision and suggest best ways to learn your Maths.