

**Year 7 Curriculum Explained**

Our Maths curriculum intends to train excellent Mathematicians. This means that they will be able to:

1. Approach problems in a variety of different ways.
2. Use a range of resources to illustrate problems.
3. Follow modelled structures.
4. Communicate effectively as mathematicians.
5. Use numeracy building blocks to work confidently.
6. Use positive integer powers and associated real roots
7. Apply the four operations with decimal numbers
8. Write a quantity as a fraction or percentage of another
9. Use multiplicative reasoning to interpret percentage change
10. Add, subtract, multiply and divide with fractions and mixed numbers
11. Check calculations using approximation, estimation or inverse operations
12. Simplify and manipulate algebraic expressions.
13. Substitute numbers into formulae
14. Solve linear equations in one unknown
15. Understand the properties of 2D and 3D shapes.
16. Understand and use geometric notation for labelling angles, lengths, equal lengths and parallel lines

The curriculum teaches the fundamental ideas which are the building blocks of success for problem-solving, using mathematical language, deepening understanding and thinking. We sequence these in the best order so that students can see how these fundamental ideas link together.