

### **Overview of Year 8 Mathematics Curriculum**

In Year 8, pupils continue to follow the Collins Maths Frameworking series, which is based on yearly objectives from the National Numeracy Strategy. Pupils are encouraged to build on their knowledge from year 7, developing their mathematical thinking skills and preparing them for the Year 9 SATs examinations. The course is split into 16 units, which are as follows:

1. Number and Algebra 1 - Negative numbers, Primes, Factor, Multiples and Sequences
2. Shape, Space and Measure 1 - Angles and construction
3. Handling Data 1 - Probability
4. Number 2 - Fractions and percentages
5. Algebra 2 - Terms, Brackets, Factorising and Simplifying
6. Shape, Space and Measure 2 - Area, Volume and Units of measure
7. Algebra 3 - Functions and Graphs
8. Number 3 - Rounding, Powers, Estimation and Decimals
9. Shape, Space and Measure 4 - Congruence, Transformations and Ratio
10. Algebra 4 - Equations, Substitution and Formulae
11. Handling Data 2 - Statistical graphs and diagrams
12. Number 4 - Fractions, BODMAS, Decimals
13. Algebra 5 - Expanding and simplifying, Solving Equations
14. Solving Problems - Proof
15. Shape, Space and Measure 4 - Plans and elevations, Scale drawing, Loci and Bearings
16. Handling Data 3 - Averages and Comparing data

### **Homework**

This is set twice a week and is designed to support the work done during lessons. One piece will be a written task; the other will be a learning homework. As it is school policy to set homework, a detention will be issued if they are not handed in regularly.

### **Examinations/Key Assessments**

Assessment takes place in April/May in the form of Key Stage 3 Year 8 Optional/Progress Tests. In addition there are six unit exams, one of which will take place during each half term. These will be marked in detail and used to inform pupils of their progress, highlighting areas of weakness and strength.

### **How Parents Can Help**

- Check that homework is recorded in planners and that all work is completed to a good standard.
- Ensure that basic equipment is brought to each lesson. A pencil and ruler are the minimum requirements.
- Encourage the use of the Internet for homework completion and revision.
- Ensure pupils revise for assessment tests.