



## Intent

We are committed to raising the standards of numeracy of all students, so that they enhance the ability to use numeracy skills effectively in all areas of the curriculum. We strive to ensure that all pupils are equipped with skills to cope confidently with the demands of further education, employment and adult life.

Numeracy is a proficiency which is developed mainly in mathematics but also taught and harnessed in other areas of our curriculum offer. It is more than an ability to do basic arithmetic. It involves developing confidence and competence with numbers and measures. It requires understanding of the number system, a repertoire of mathematical techniques, and an inclination and ability to solve quantitative or spatial problems in a range of contexts. Numeracy also demands the understanding of the ways in which data are gathered by counting and measuring, and presented in graphs, diagrams, charts and tables. (Framework for Teaching Mathematics – Years 7 to 9 – DfES)

Our aims are:

1. To ensure consistency of practice including methods, vocabulary, notation etc. within the mathematics department and across all other areas of our curriculum offer
2. To insist on high quality teaching and learning
3. To explore and support with areas for collaboration between subjects
4. To develop and maintain the skills of numeracy across the school
5. To assist the transfer of mathematical skills to other subjects and apply problem solving techniques

We strive to develop pupil confidence in four key areas:

### Mental Arithmetic Techniques

Opportunities for students to develop mental strategies for calculations should be given and pupils should be encouraged to estimate answers to calculations before they start so that they can check whether their answers are correct, including when using a calculator.



## Intent

### Written Calculations

We teach all pupils unique ways designed to help learn formal written calculation to solve specific maths questions within topics across our KS3 and KS4 curriculums.

### Vocabulary

We ensure that through high quality teaching and learning that pupils are able to:

- Use sophisticated mathematical language
- Discuss words which have multiple meaning such as volume, product etc
- Use and understand a variety of vocabulary that has the same meaning (multiply, product)

### Transfer of Skills

The mathematics department will deliver the National Curriculum knowledge and skills. Where appropriate they will make references to the applications of Mathematics in other subject areas and where possible give contexts to topics. The transfer of skills is something that students find difficult; this is why it is imperative that mathematics is taught consistently across the school.