

KS3 COURSE OPTIONS

| | |
|----------------------------------|---|
| Course Title | Key Stage 3 Mathematics (Year 8) |
| Course Description | Building on the Mathematics studied in Year 7 the course is designed to deepen students understanding of basic concepts, provide intellectual challenge with new topics, and provide an insight in to how mathematics is used in everyday life. Students in Year 8 are on the 2 nd year of a 5-year program of study designed to allow students to achieve their full potential at GCSE |
| Course Content (Term 1,2,3 etc.) | See table on the next page |
| Extra-Curricular Opportunities | None. |
| Useful Websites | www.Mathswatch.vle.com www.mymaths.co.uk https://cloud.guilsborough.northants.sch.uk |
| Important Information | <p>Students in Mathematics will be set based on their ability, this is initially based on information from the primary school, and then through our own regular testing.</p> <p>Students identified as needing additional help in Mathematics, will be supported through a basic skills numeracy program.</p> <p>All students are expected to have their own scientific calculator; these can be brought from the Mathematics Department. Students are also expected to have basic geometry set available for every lesson.</p> <p>Much of the Mathematics out of school support is provided by online activities, it is vital that students have access to a computer for use out of lessons</p> |
| Provision For Most Able | As all students in Mathematics are set, the more able students, in Year 8 will follow an accelerated program of study, that enable them to explore new topics earlier, and challenges them to think about their current knowledge in new and unfamiliar ways. |
| Assessment | <p>Students in Mathematics are continually assessed in lessons, in addition to this every couple of week students will complete an assessed homework, once marked by teacher students will receive targets for improvement.</p> <p>In addition to this students will sit setting and assessment tests in Terms 1,3,4,6</p> |

| | Excelling Mathematicians | Mastering Mathematicians | Developing Mathematicians | Emerging Mathematicians |
|-----------------|---|---|---|--|
| Term 1 | Angles Number Algebra | Fractions and Ratio Decimals Handling Data Percentages | Multiplication and Division Working with Algebra Symmetry and Angles Fractions Decimals and Percentages | Decimals Fractions Algebra Formulae and Equations Multiplication |
| | | | | |
| Term 2 | Averages Formulae and Equations Area and Volume | Graphs Shape and Measure Formulae and Equations Perimeter, Area and Volume | Decimals and Percentages Shape and Measure Formulae and Equations Probability | Division Number Symmetry and Angles |
| | | | | |
| Term 3 & Term 4 | Area and Volume Graphs Probability (Inc Venn Diagrams) Fractions and Ratio Decimals | Averages and Spread Transformations Algebra Number | Handling Data Averages Positive and Negative Numbers Angles and Bearings Transformations | Fractions Handling Data Number Patterns Probability |
| | | | | |
| Term 5 | Geometrical Reasoning Percentages Transformations Number Sequences | Number Angles Formulae and Equations Graphs Probability (Venn Diagrams) | Number Patterns Algebra Number Fractions and Ratio | Negatives Graphs Shapes Decimals |
| | | | | |
| Term 6 | Pythagoras Theorem | Fractions, Ratio and Proportion | Perimeter, Area and Volume | Percentages |

| | | | | |
|--|-----------------------------------|---|---------------------------|---|
| | Trigonometry Data Handling | Decimals Number Sequences Area, Volume and Measure | Formulae and Equations | Perimeter, Area and Volume Averages |
|--|-----------------------------------|---|---------------------------|---|