

MATHEMATICS

Student year: **Lower 4 (Yr 8)**

Head of Department: **Dr P Merisi**

AUTUMN TERM

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| Number | Indices and factors Rounding and estimating Ratio and proportion |
| Algebra | Expanding brackets, simple factorisation Linear equations |
| Shape & Space | Pythagoras' theorem |

SPRING TERM

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|---------------|---|
| Number | Consolidation of basic operations Revision of directed numbers Fractions and percentages |
| Algebra | Formulae and equations |
| Shape & Space | Nets and surface areas of cuboids, prisms and pyramids |
| Data Handling | Graphical representation of data Frequency tables and calculation of mean, median, mode and range |

SUMMER TERM

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|---------------|---|
| Number | Units of measure Distance, speed, time and compound |
| measures | |
| Algebra | Consolidation of earlier work on formulae, equations and use of brackets |
| Shape & Space | Angles, bearings and maps Circles and cylinders Polygons |
| Data Handling | Probability |

Throughout the Year

Use of non-calculator based methods – Mental arithmetic skills and practice
– Oral discussions – Aural questions – Practical tasks – Functional skills tasks –
Investigational work on open-ended tasks