

MATHEMATICS

Pupil year: L4 (Yr 8)

Head of Department: Dr P Merisi

Subject Topic / Skills

Autumn Term

Number	Indices and factors. Rounding and estimating. Ratio and proportion
Algebra	Expanding brackets. Simple factorisation
Shape & Space	Pythagoras' theorem. 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

Spring Term

Number	Consolidation of basic operations Revise directed numbers Fractions and percentages
Algebra	Formulae
Shape & Space	Angles, bearings and maps. Circles and cylinders
Data Handling	Probability

Summer Term

Number	Units of measure. Distance, speed, time and compound measures
Algebra	Consolidation of earlier work on formulae and using brackets. Straight line graphs
Shape & Space	Similarity. Polygons

Throughout the Year

Use of non-calculator based methods. Mental arithmetic skills and practice. Oral discussion – Aural questions – Practical tasks. Investigational work with more open-ended problems