



AUTUMN TERM

- Retrieval starters throughout the year
- Literacy in Maths- Frayer Modelling
- Introduction to Sparx Maths for home learning
- Number: Understanding Place Value, Decimals, Negative Numbers, Prime Numbers, Highest Common Factor and Lowest Common Multiple
- NRICH investigations: A Bit of a Dicey problem
- Introducing the grid method

$$\begin{array}{r} 83 \times 37 \\ \times \quad 80 \quad 3 \\ 30 \quad \square \quad \square \\ 7 \quad \square \quad \square \end{array}$$

- Introduction to zero pairs for adding and subtracting negative numbers



- Understanding Algebraic Notation
- Algebra: algebraic notation, simplifying expressions and functions
- Introduction to Algebra Tiles



- Fractions: Ordering fractions, adding and subtracting with different denominators, converting between mixed and improper fractions, algebraic fractions
- KS3 Numeracy/literacy, Halloween murder mystery, Twelve days of Christmas
- Great mathematics: Egyptian numbers and their multiplication (History)
- Recall, AP1 and review

SPRING TERM

- Geometry: Notation and Construction, drawing and measuring angles, identifying different quadrilaterals, geometric construction
- Algebra: Substitution and Solving up to three step equations
- Ratio and Proportion: The introduction of Ratio Tables

	6
9	18

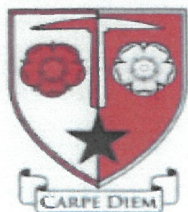
- Applying Ratio Tables to Speed, fractions of an amount and proportional problems
- Measure with ratio tables
- Recall, AP2 and review
- Geometry: Perimeter – Understanding regular, irregular and compound shapes.
- Careers week
- NRICH Investigation: Olympic Measure
- KS3 Numeracy: Easter maths challenge

SUMMER TERM

- Sequences: Linear, Non-Linear, Fibonacci Sequences
- Expanding a single bracket using the grid method

$$\begin{array}{r} \text{Expand } 5(x + 3) \\ \times \quad +3 \\ 5 \end{array}$$

- Geometry: Area problems with triangles, parallelograms and compound shapes
- Recall, AP3 and review
- Geometry: Understand basic angle properties
- Data: Understand the Data Handling Cycling
- Data: Introduction to Probability
- Recall and review



AUTUMN TERM

- Retrieval Starters throughout the year
- Literacy in Maths - Frayer Modelling
- SPARX Maths for home learning
- Understanding Ratio and how it is applied in Maths
- NRIC investigation: Mixing Lemonade
- Number, Data Handling and Algebra: The Power of Venn



- Geometry: Understanding the Cartesian Plane
- Making links with algebra, graphs and sequences
- Number: Introduction of inequalities
- Data Handling: Frequency tables
- KS3 Numeracy: Christmas challenge
- Recall, AP1 and review

SPRING TERM

- Understanding reciprocals. Multiplying and dividing fractions
- Percentages with ratio tables.
- Algebraic manipulation with algebra tiles.
- Recall, AP2 and review
- Geometry: Angles in parallel lines and everything 360
- Number: Irrational Numbers
- Pi Day
- Careers in Maths: Great mathematicians: Alan Turing code breaking
- KS3 Numeracy: Easter challenge
- Recall, assessment and review

SUMMER TERM

- Geometry: Measure, estimation, compound shapes and angles in regular polygons
- Recall, AP3 and review
- Number: Rules of Indices and Standard form
- Data Handling: Probability and averages in tables
- UKMT Challenge
- Diagnostic Questions going into year 9.
- NRIC Investigation: Pocket Money
- NRIC Investigation: Changing area and changing perimeter
- Recall and review



YOUR
SCHOOL
JOURNEY

YEAR 9 MATHS

AUTUMN TERM

- Retrieval Starters throughout the year
- Literacy in Maths - Frayer Modelling
- SPARX Maths for home learning
- Low stakes check in ✓ throughout the year
- Forming and solving equations with Algebra tiles.
- Mobile Phone Contracts Investigation
- Algebraic Manipulation
- Recall, AP1 and review.
- Linear vs Quadratic Graphs
- Everything 3-D
- Fun with Loci: Skittles Challenge/Sniper at the Gates/Radiation Leak
- Number skills and Indices
- KS3 Numeracy: Christmas challenge



SPRING TERM

- Pythagoras Theorem
- NRICH Task: Tilted Squares
- Recall, AP2 and review.
- Everyday problems with ratio
- Money, Money, Money!!!
- Money workshops
- HT4: Shape and Space
- Similarity vs Congruence
- Ratios in Triangles
- Pi Day
- Vectors
- Transformations
- Careers week
- KS3 Numeracy. Easter problem solving.
- Recall and review.

SUMMER TERM

- Making further links with sequences and graphs
- Solving quadratics with graphs and algebraically
- Solving Simultaneous Equations
- Recall, AP3 and review
- Probability with two events
- Rates with ratio tables

BUILDING EXCEPTIONAL YOUNG MEN