

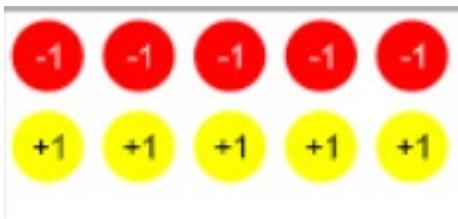
**AUTUMN TERM**

- Retrieval starters throughout the year
- Literacy in Maths used throughout the year- 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 throughout the year to gain a deeper understanding
- Introducing the grid method

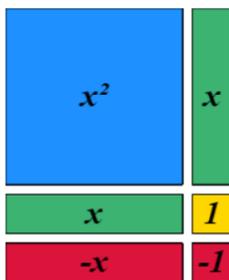
$$83 \times 37$$

x	80	3
30		
7		

- 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 system (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**
- **KS3 Numeracy: Easter maths challenge**

## SUMMER TERM

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

Expand  $5(x + 3)$

	x	+3
5		

- **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**

**BUILDING EXCEPTIONAL YOUNG MEN**



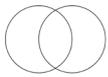
YOUR  
SCHOOL  
JOURNEY

**YEAR 8**

**MATHS**

#### AUTUMN TERM

- Retrieval Starters throughout the year
- Literacy in Maths used throughout the year- Frayer Modelling
- SPARX Maths for home learning
- Understanding Ratio and how it is applied in Maths
- NRICH investigations throughout the year to gain a deeper understanding
- 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
- Great mathematicians: Florence Nightingale and her work on polar charts and comparative pie charts. (Geography, history, science and RE)
- Careers in Maths
- 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.
- Great mathematicians: Alan Turing code breaking (History, IT and Re)
- KS3 Numeracy: Crypto currency.
- Recall and review

**BUILDING EXCEPTIONAL YOUNG MEN**



YOUR  
SCHOOL  
JOURNEY

YEAR 9

MATHS

#### AUTUMN TERM

- Retrieval Starters throughout the year
- Literacy in Maths used throughout the year- Frayer Modelling
- SPARX Maths for home learning
- Investigations throughout the year to gain a deeper understanding
- Diagnostic Questions throughout the year
- Low stakes check in ✓ throughout the year
- Forming and solving equations with Algebra tiles.
- 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
- 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
- Growing Rectangles Investigation
- Careers week: Product development cycle (car).
- 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