

Year 8 Maths

Numbers and the Number System

- Product of Primes.
- HCF/LCM using Venn Diagrams.
- Significant Figures.

Calculating

- Four operations with directed numbers.
- Substitution (negatives).
- Calculator skills.

Visualising and Constructing

- Enlargements.
- Plans and Elevations.
- Scale drawings.

Understanding risk I

- Probability scales and the language of probability.

Algebraic Proficiency

- Simplify expressions.
- Factorise expressions.
- Change the subject of a formula.

Exploring Fractions, Decimals, Percentages

- Fractions of amounts.
- Simplifying fractions.
- Improper fractions/mixed numbers.

Proportional Reasoning

- Ratio in context.
- Compound measures (speed/distance/time).

Pattern Sniffing

- Linear sequences.
- Nth term.
- Sequences using ICT.

Investigating Angles

- Angles on parallel lines.
- Angles in triangles proof.

Calculating Fractions, Decimals, Percentages <ul style="list-style-type: none"> Percentage increase/decrease. 	
Solving Equations and Inequalities <ul style="list-style-type: none"> Order of operations (using algebra). Linear equations. 	
Calculating Space <ul style="list-style-type: none"> Circles. Area and Circumference. Prisms. 	
Algebraic Proficiency - Visualising <ul style="list-style-type: none"> Equation of straight line graphs. Plotting functions. Quadratic Graphs. 	
Understanding risk II <ul style="list-style-type: none"> Listing outcomes (two-way table, Venn diagram). Frequency Trees. Theoretical Probability. 	
Presentation of Data <ul style="list-style-type: none"> Discrete/continuous data. Frequency tables. Scatter diagrams. 	
Measuring Data <ul style="list-style-type: none"> Class/group data. Investigating averages. 	
Advice to students for independent study	Log on to online resources such as Maths Watch to access video tutorials and complete additional questions on the topics being studied.