

Year 8

The topics that are covered in Year 8 are detailed below. Individual classes by vary slightly from this, and exam dates are subject to change.

| WC | Unit title | Topics covered |
|--------|---|---|
| 25-Aug | Understanding Number | Place value Negative numbers Rounding Estimation |
| 01-Sep | | |
| 08-Sep | Working with Number - Operations and FDP | Four operations (+, -, x and ÷) with integers and decimals Order of operations Inverse operations Using a calculator |
| 15-Sep | | |
| 22-Sep | Algebraic Notation and Manipulation | Algebraic notation Substitution Collecting like terms Expanding/factorising brackets |
| 29-Sep | | |
| 06-Oct | Angles | Angles at a point and on a straight line Parallel lines Angles in a triangle Angles in polygons Pythagoras' theorem |
| 13-Oct | | |
| 27-Oct | Probability | Probability scale Probability of mutually exclusive events Relative frequency Sample space Venn diagrams |
| 03-Nov | | |
| 10-Nov | Area, Volume and Perimeter | Perimeter Area Volume of prisms |
| 17-Nov | | |
| 24-Nov | Sequences | Patterns Generate sequences Find rules for sequences |
| 01-Dec | Graphs and Relationships | Co-ordinates Straight line graphs Quadratic graphs |
| 08-Dec | | |
| 15-Dec | Time, Speed and Rates of Change | Convert between units Compound units |
| 05-Jan | Proportion and Scale | Scale factors Maps Direct proportion |
| 12-Jan | Transformations | Translation Rotation Reflection Enlargement |
| 19-Jan | | |
| 26-Jan | Mid-Year exams | |
| 02- | Working with Number - FDP of | Fractions and percentages of amounts |

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|--------|---|---|
| Feb | amounts | Percentage increase/decrease |
| 09-Feb | | Percentage change |
| 23-Feb | Ratio | Simplifying ratio Sharing in a ratio Multiplicative relationships |
| 02-Mar | Drawing, Measures and Construction | Drawing lines Measuring angles Constructions |
| 09-Mar | Solving Equations | Using formulae Real life graphs |
| 16-Mar | | Solving linear equations Rearranging simple formulae |
| 23-Mar | Collecting and Processing | Surveys and questionnaires Averages and range |
| 13-Apr | | Tables and charts |
| 20-Apr | Working with Number - Converting and equivalence | Converting between fractions, decimals and percentages |
| 27-Apr | | Ordering fractions and decimals |
| 04-May | Processing and Representing | Frequency tables |
| 11-May | | Bar charts, pie charts, pictograms |
| 18-May | Properties of number | Factors, multiples, primes Powers and roots |
| 01-Jun | Properties of Shape | 2D shapes |
| 08-Jun | | 3D shapes Nets Elevations/Isometric drawing |
| 15-Jun | Excel project | Mathematical functions in Excel |
| 21-Jun | | |
| 28-Jun | End of Year exams | |
| 06-Jul | Review and target setting week | |