

| Unit | Lesson | Hours |
|--------------------------------------|--|-------|
| 1 Number | 1.1 Number problems and reasoning | 11 |
| | 1.2 Place value and estimating | |
| | 1.3 HCF and LCM | |
| | 1.4 Calculating with powers (indices) | |
| | 1.5 Zero, negative and fractional indices | |
| | 1.6 Powers of 10 and standard form | |
| | 1.7 Surds | |
| 2 Algebra | 2.1 Algebraic indices | 12 |
| | 2.2 Expanding and factorising | |
| | 2.3 Equations | |
| | 2.4 Formulae | |
| | 2.5 Linear sequences | |
| | 2.6 Non-linear sequences | |
| | 2.7 More expanding and factorising | |
| 3 Interpreting and representing data | 3.1 Statistical diagrams 1 | 11 |
| | 3.2 Time series | |
| | 3.3 Scatter graphs | |
| | 3.4 Line of best fit | |
| | 3.5 Averages and range | |
| | 3.6 Statistical diagrams 2 | |
| 4 Fractions, ratio and percentages | 4.1 Fractions | 10 |
| | 4.2 Ratios | |
| | 4.3 Ratio and proportion | |
| | 4.4 Percentages | |
| | 4.5 Fractions, decimals and percentages | |
| 5 Angles and trigonometry | 5.1 Angle properties of triangles and quadrilaterals | 12 |
| | 5.2 Interior angles of a polygon | |
| | 5.3 Exterior angles of a polygon | |
| | 5.4 Pythagoras' theorem 1 | |
| | 5.4 Pythagoras' theorem 1 | |
| | 5.6 Trigonometry 1 | |
| | 5.7 Trigonometry 2 | |

Autumn Term

| Unit | Lesson | Hours |
|-------------------------------------|---|-------|
| 6 Graphs | 6.1 Linear graphs | 11 |
| | 6.2 More linear graphs | |
| | 6.3 Graphing rates of change | |
| | 6.4 Real-life graphs | |
| | 6.5 Line segments | |
| | 6.6 Quadratic graphs | |
| | 6.7 Cubic and reciprocal graphs | |
| | 6.8 More graphs | |
| 7 Area and volume | 7.1 Perimeter and area | 10 |
| | 7.2 Units and accuracy | |
| | 7.3 Prisms | |
| | 7.4 Circles | |
| | 7.5 Sectors of circles | |
| | 7.6 Cylinders and spheres | |
| | 7.7 Pyramids and cones | |
| 8 Transformations and constructions | 8.1 3D solids | 10 |
| | 8.2 Reflection and rotation | |
| | 8.3 Enlargement | |
| | 8.4 Transformations and combinations of transformations | |
| | 8.5 Bearings and scale drawings | |
| | 8.6 Constructions 1 | |
| | 8.7 Constructions 2 | |
| | 8.8 Loci | |
| 9 Equations and inequalities | 9.1 Solving quadratic equations 1 | 9 |
| | 9.2 Solving quadratic equations 2 | |
| | 9.3 Completing the square | |
| | 9.4 Solving simple simultaneous equations | |
| | 9.5 More simultaneous equations | |
| | 9.6 Solving linear and quadratic simultaneous equations | |
| | 9.7 Solving linear inequalities | |
| 10 Probability | 10.1 Combined events | 9 |
| | 10.2 Mutually exclusive events | |
| | 10.3 Experimental probability | |
| | 10.4 Independent events and tree diagrams | |
| | 10.5 Conditional probability | |
| | 10.6 Venn diagrams and set notation | |

Spring Term

| Unit | Lesson |
|---|--|
| 11 Multiplicative reasoning | 11.1 Growth and decay |
| | 11.2 Compound measures |
| | 11.3 More compound measures |
| | 11.4 Ratio and proportion |
| 12 Similarity and congruence | 12.1 Congruence |
| | 12.2 Geometric proof and congruence |
| | 12.3 Similarity |
| | 12.4 More similarity |
| | 12.5 Similarity in 3D solids |
| 13 More trigonometry | 13.1 Accuracy |
| | 13.2 Graph of the sine function |
| | 13.3 Graph of the cosine function |
| | 13.4 The tangent function |
| | 13.5 Calculating areas and the sine rule |
| | 13.6 The cosine rule and 2D trigonometric problems |
| | 13.7 Solving problems in 3D |
| | 13.8 Transforming trigonometric graphs 1 |
| | 13.9 Transforming trigonometric graphs 2 |
| | 14 Further statistics |
| 14.2 Cumulative frequency | |
| 14.3 Box plots | |
| 14.4 Drawing histograms | |
| 14.5 Interpreting histograms | |
| 14.6 Comparing and describing populations | |
| 15 Equations and graphs | 15.1 Solving simultaneous equations graphically |
| | 15.2 Representing inequalities graphically |
| | 15.3 Graphs of quadratic functions |
| | 15.4 Solving quadratic equations graphically |
| | 15.5 Graphs of cubic functions |

Summer Term