| Year 7 | T1 | T2 | T3 | T4 | T5 | T6 |
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| Content / <br> Topic for Term | Number 1 | Algebra 1 | Geometry 1 <br> Geometry 2 | Ratio and proportion 1 | Statistics 1 and 2 Probability 1 | Geometry 3 |
| Key knowledge for acquisition, recall and application in assessment or exam | Basic arithmetic <br> Times tables <br> Number properties <br> Using four operations with directed numbers <br> Place value of a number <br> Difference between significant figures and decimal places <br> Definition of estimation | Recall formulae (2D shapes) <br> Basic arithmetic <br> Difference between expression/formula/ equation <br> What a like term is <br> Basic rules of algebra <br> What a linear sequence is | Difference between area and perimeter <br> Formulae (2D shapes) <br> More complex formulae (2D shapes) <br> Definition of a compound shape <br> Definition of volume <br> Units of perimeter/area/volume <br> Definition of prism and cross-section <br> Special types of triangle and properties | Ratio notation <br> Recognise equivalent ratios <br> Sharing in a given ratio <br> What direct proportion is <br> The unitary method <br> Basic metric units <br> Recognise enlargements <br> Use monetary conversions | Know the three types of averages and range <br> Rules for drawing a bar/line chart <br> Basic proportions (eg $1 / 4=90^{\circ}$ ) <br> Difference between proportions and frequencies in context of a pie chart <br> Language of probability <br> Probability scale <br> Know to express a probability as FDP | Recognise types of angles (acute, etc) <br> Angle notation (<ABC) <br> Compass directions <br> Recognise angles in parallel lines <br> Three rules of bearings <br> Difference between 'A to B' and 'A from B' <br> Know the steps to execute three triangle constructions |


|  | The order of operations (BIDMAS) <br> Definition of an equivalent fraction |  | How to demonstrate that angles in a triangle sum to $180^{\circ}$ <br> Special types of quadrilateral and properties |  | Difference between theoretical and experimental probability | Steps to construct angle and perpendicular bisector <br> Know the sum of interior angles of polygons |
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| Key skills to apply in assessment or exam | Timetables <br> Apply four arithmetic operations <br> Basic fractions and equivalents | Apply the four basic operations to algebra <br> Find the term-term rule <br> Find the $\mathrm{n}^{\text {th }}$ term <br> Substitute | Measure an angle <br> Use a protractor <br> Substitution into formulae <br> Calculate sum of the interior angles in a polygon using triangles | Use multiplication and division to work out equivalent ratios <br> Problem solving <br> Read a scale from a map <br> Apply unitary method <br> Calculate missing lengths in similar shapes | Calculate the averages and range <br> Use a protractor <br> Use a pair of compasses <br> Construct/interpret a bar charts (including dual bar charts) <br> Calculate angle of sector <br> List all possible outcomes <br> Calculate probabilities of single events | Measure an angle <br> Use a pair of compasses <br> Apply the rules of bearings <br> Execute three triangle constructions |

## Maths

Year 7 curriculum map
Denefield
Success for life

| Title of <br> Knowledge <br> Organiser | Basic Number <br> Factors and <br> multiples <br> Fractions | Algebra |  | Perimeter and Area | Ratio | Basic Probability |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Angles |  |  |  |  |  |  |
| Dearings and Scale |  |  |  |  |  |  |

