Y8 Autumn

| A-B1 – Multiplying and | A - B2 – Ratio and scale | A - B3 – Multiplicative | A – B4 – Algebraic techniques | A - B5 – Representing | A - B6 – Tables and |
|---------------------------|--------------------------|-------------------------|---------------------------------|---------------------------|----------------------------|
| dividing fractions | | change | | data | probability |
| - Simplify / find | - Ratio notation | - Direct proportion | - Collecting like terms with | - Scatter graphs (inc | - Single event probability |
| equivalent fractions | - Problems involving | - Conversion graphs | indices | correlation and line of | - Sample space diagrams |
| - Multiply / divide a | ratios one part known | - Currency conversion | - Laws of indices | best fit) | - Probability from two |
| fraction by an integer | - Sharing into a ratio | - Similar shapes | - Generating a sequence | - Types of data | way tables |
| - Reciprocals | - Problems involving | - Scale drawings / maps | - Find the n th term | - Tally charts and tables | - Probability from Venn |
| -Multiply / divide proper | ratio difference known | | - Expand brackets | - Read and interpret | diagrams |
| fractions and mixed | - Simplifying ratio (inc | | - Factorise | frequency tables | - Product rule |
| numbers | 1:n H) | | - Expand double brackets (H) | (ungrouped and grouped | |
| - Algebraic fractions (H) | - Compare fractions and | | | data) | |
| | ratios | | | - Two way tables | |
| | | | | | |

Y8 Spring

| Sp - B1 – Working in the | Sp – B2 – Fractions and | Sp – B3 – Brackets, equations and | Sp - B4 – Standard form | Sp - B5 – Applying number |
|----------------------------------|-----------------------------|--|--------------------------------------|---------------------------|
| Cartesian plane | percentages | inequalities | | |
| - Coordinates in 4 quadrants | - Convert between FDP | - Recaps prior algebra | - Convert large and small numbers | - Rounding including to |
| - Midpoint | - Fraction or percentage of | - Directed number with algebra eg | between ordinary and standard | decimal places and |
| - Lines parallel to the axis and | amount | collecting like terms. | form | significant figures |
| y=x | - Percentage increase and | - Solve equations 2 step, brackets, | - Add and subtract in standard form | - Estimating |
| - Plot graphs (builds up to y = | decrease with multipliers | unknowns both sides | - Multiply and divide in standard | - Error intervals (H) |
| mx+c form) | - Percentage change | - Solve inequalities 2 step, brackets, | form | - Order of operations |
| - Sequences and links to graphs | - Percentage problems | unknowns both sides | - Use a calculator for standard form | - Money calculations |
| - Gradient of a line | - Finding the original when | - Identify formulae, expressions, | - Negative indices (H) | - Metric measures |
| - Recognising the equation of a | given a percentage (H) | identities, equations | | - Time problems |
| line from the graph | | - Form and solve (H) | | |
| | | | | |

Y8 Summer

| Su - B1 – Angles in parallel lines | Su - B2 – Area and perimeter of | Su - B3 – The data handling | Su - B4 – Measures of location | Data project until end of year |
|------------------------------------|-----------------------------------|---------------------------------|---------------------------------|--------------------------------|
| and polygons | 2D shapes | cycle | | |
| - Basic angles rules | - Parts of a circle | - Statistical enquiries | - Calculate the mean, median | |
| - Angles problems involving | - Recap area rectangles, | - Criticise questionnaires | mode and range for a set of | |
| equations | triangles and parallelograms | - Pictograms, bar charts and | range | |
| - Angles rules for parallel lines | - Area of trapezium | line graphs | - Interpret and use averages in | |
| - Quadrilateral properties | - Perimeter and area of | - Draw and interpret pie charts | a range of contexts | |
| - Triangle constructions | compound shapes | - Compare distributions | - Averages from frequency | |
| - Complex angles problems | - Area /circumference of circles | - Misleading graphs | tables (grouped and | |
| - Interior and exterior angles of | - Area of a semi-circle / quarter | - Calculate the range (inter- | ungrouped) | |
| polygons | circle | quartile range (H)) | - Outliers | |
| | | | - Stem and leaf diagrams | |