Working towards expected standard for Year 6
Annotate/make jottings to support understanding.
Multiply and divide by 10, 100, 1000 and know its effect.
Round any whole number to a required degree of accuracy.
Read and understand negative numbers in context.
Accurately use formal methods for the four operations for whole numbers.
Use formal methods to solve one step problems.
Recall prime numbers up to 19.
Compare and order fractions, decimals and percentages.
Know conversion factors for measurement (e.g. 1000g = 1kg).
Find perimeter and area of simple rectilinear shapes.
Know the properties of regular polygons including angles.
Calculate angles on a straight line, triangles and around a point.
Describe positions on the four quadrants.
Working at expected standard for Year 6
Demonstrate an understanding of place value, including large numbers and decimals.
Round any number to a required degree of accuracy.
Calculate intervals across zero.
Calculate mentally, using efficient strategies.
Use formal methods to solve multi-step problems.
Use knowledge of BODMAS to solve problems.
Identify common factors, multiples and prime numbers.
Recognise the relationship between fractions, decimals and percentages and can express them as equivalent quantities.
Calculate to solve problems using fractions, decimals or percentages.
Solve problems involving ratio, proportion and scale factor.
Substitute values into a simple formula to solve problems.
Find pairs of numbers that satisfy an equation with two unknown.
Calculate with measures, involving conversions (metric & imperial).
Find perimeter and area of compound rectilinear shapes.
Draw 2-D shapes using given dimensions and angles.
Compare and classify geometric shapes based on their properties and sizes.
Use knowledge of shape to mathematical reason to find missing angles.
Describe positions on the four quadrants after a range of transformations.
Use charts and graphs to interpret data.
Calculate the mean.
Working at greater depth within Year 6
Construct a complex explanation using correct mathematical vocabulary and evidence to support reasoning.
Demonstrate clear and complete methods in working.
Choose when to round answers according to context and required accuracy.
Develop robust strategies to check calculations.
Enumerate possibilities of combinations of two variables.
Find perimeter and area of given shapes and recognise that shapes with the same area can have different perimeters and vice versa.
Interpret the mean to find data points within a set.