

Basic details	Description
Angle and Pos 08.01	use compass bearings and grid references to specify locations
Angle and Pos 10.01	apply proportional change to 2-dimensional designs
Area Vol	
Area Vol 08.01	calculate areas of compound shapes (e.g. consisting of rectangles and triangles) and volumes of simple solids (e.g. cubes and cuboids)
Calculate	
Calculate 08.01	use efficient written methods to add and subtract numbers with up to 2 decimal places
Calculate 08.02	use efficient methods for multiplication and division of whole numbers and decimals, including decimals such as 0.6 or 0.06
Calculate 08.03	use the order of operations including brackets
Communicate	
Communicate 08.01	explain results and procedures precisely using appropriate mathematical language
Communicate 08.02	refine methods of recording calculations
Communicate 08.03	use appropriate notation, symbols and units of measurement, including compound measures
Communicate 08.04	select and construct appropriate charts, diagrams and graphs with suitable scales
Communicate 08.05	interpret graphs that describe real-life situations, including those used in the media, recognising that some graphs may be misleading
Data	
Data 08.01	plan how to collect data to test hypotheses
Data 08.02	construct a wide range of graphs and diagrams to represent discrete and continuous data
Data 08.03	construct frequency tables for sets of data in equal class intervals, selecting groups as appropriate
Data 08.04	construct graphs to represent data including scatter diagrams to investigate correlation
Data 08.05	interpret diagrams and graphs to compare sets of data
Data 08.06	use mean, median, mode and range to compare two distributions (continuous data).
Estimate	
Estimate 08.01	use rounding to estimate answers to a given number of significant figures
Estimate 08.02	present answers to a given number of significant figures
Facts	
Facts 08.01	recognise and apply key mental facts and strategies
Facts 08.02	use known facts to derive others, e.g. use 7×6 to derive 0.7×6
Facts 08.03	use the terms cube, cube root and reciprocal
Fractions 08.01	use equivalence of fractions, decimals and percentages to select the most appropriate for a calculation
Fractions 08.02	simplify a calculation by using fractions in their simplest terms
Fractions 08.03	calculate a percentage, fraction, decimal of any quantity with a calculator where appropriate
Fractions 08.04	calculate the outcome of a given percentage increase or decrease
Fractions 08.05	use ratio and proportion to calculate quantities
Fractions 10.01	use and understand the idea of reverse percentage to find an original quantity

Fractions 10.02	use multipliers as an efficient method when working with percentages, e.g. multiply by 1.2 to increase an amount by 20%
Fractions 10.03	use and understand ratio and proportion in 2 dimensions
Measures	
Measures 08.01	use the common units of measure, convert between related units of the metric system and carry out calculations
Measures 08.02	use rough metric equivalents of imperial units in daily use
Money	
Money 08.01	carry out calculations relating to VAT, saving and borrowing
Money 08.02	appreciate the basic principles of budgeting, saving (including understanding compound interest) and borrowing
Number	
Processes	
Processes 08.01	transfer mathematical skills across the curriculum in a variety of contexts and everyday situations
Processes 08.02	select, trial and evaluate a variety of possible approaches and break complex problems into a series of tasks
Processes 08.03	prioritise and organise the relevant steps needed to complete the task or reach a solution
Processes 08.04	choose an appropriate mental or written strategy and know when it is appropriate to use a calculator
Processes 08.05	use a scientific calculator to carry out calculations effectively and efficiently using the available range of function keys
Processes 08.06	identify, measure or obtain required information to complete the task
Processes 08.07	identify what further information might be required and select what information is most appropriate
Processes 08.08	select appropriate mathematics and techniques to use
Processes 08.09	estimate and visualise size when measuring and use the correct units
Reason	
Review	
Review 08.01	select and apply appropriate checking strategies
Review 08.02	interpret answers within the context of the problem and consider whether answers, including calculator, analogue and digital displays, are sensible
Review 08.03	verify and justify results or solutions, including discussion on risk and chance where relevant
Review 08.04	interpret mathematical information; draw inferences from graphs, diagrams and data, including discussion on limitations of data
Review 08.05	draw conclusions from data and recognise that some conclusions may be misleading or uncertain
Temperature	
Temperature 08.01	convert temperatures between appropriate temperature scales
Time	
Time 08.01	interpret fractions of a second appropriately
Time 08.02	use timetables and time zones to calculate travel time