

Basic details	Description
Angle and Pos 06.01	use grid references to specify location
Angle and Pos 07.01	measure and draw angles
Angle and Pos 10.01	apply proportional change to 2-dimensional designs
Area Vol	
Area Vol 06.01	calculate the area of squares and rectangles
Area Vol 07.01	use formulae for the area of rectangles and triangles
Calculate	
Calculate 06.01	add and subtract numbers using whole numbers and decimals
Calculate 06.02	multiply 2- and 3-digit numbers by a 2-digit number
Calculate 06.03	divide 3-digit numbers by a 2-digit number
Calculate 07.01	use efficient written methods to add and subtract numbers with up to 2 decimal places
Calculate 07.02	multiply and divide 3-digit by 2-digit whole numbers, extending to multiplying and dividing decimals with 1 or 2 places by single-digit whole numbers
Calculate 07.03	multiply and divide whole numbers by 0.5, 0.2, 0.1
Calculate 07.04	use the order of operations
Communicate	
Communicate 06.01	explain results and procedures clearly using mathematical language
Communicate 06.02	refine informal methods of recording written calculations, moving to formal methods of calculation when developmentally ready
Communicate 06.03	use appropriate notation, symbols and units of measurement
Communicate 06.04	select and construct appropriate charts, diagrams and graphs with suitable scales
Communicate 07.01	explain results and procedures precisely using appropriate mathematical language
Communicate 07.02	refine methods of recording calculations
Communicate 07.03	use appropriate notation, symbols and units of measurement, including compound measures
Communicate 07.04	select and construct appropriate charts, diagrams and graphs with suitable scales
Communicate 07.05	interpret graphs that describe real-life situations, including those used in the media, recognising that some graphs may be misleading
Data	
Data 06.01	represent data using: - lists, tally charts, tables, diagrams and frequency tables - bar charts, grouped data charts, line graphs and conversion graphs
Data 06.02	extract and interpret information from an increasing range of diagrams, timetables and graphs (including pie charts)
Data 06.03	use mean, median, mode and range to describe a data set.
Data 07.01	collect own data for a survey, e.g. through designing a questionnaire
Data 07.02	construct frequency tables for sets of data, grouped where appropriate, in equal class intervals (groups given to learners)
Data 07.03	construct a wide range of graphs and diagrams to represent the data and reflect the importance of scale
Data 07.04	interpret diagrams and graphs (including pie charts)
Data 07.05	use mean, median, mode and range to compare two distributions (discrete data).
Estimate	

Estimate 06.01	check answers using inverse operations
Estimate 06.02	estimate by rounding to the nearest 10, 100, 1000 or whole number
Estimate 07.01	use a range of strategies to check calculations including the use of inverse operations, equivalent calculations and the rules of divisibility
Estimate 07.02	use rounding to estimate answers
Estimate 07.03	present answers to a given number of decimal places
Facts	
Facts 06.01	read and write numbers to 1 million and numbers to 3 decimal places
Facts 06.02	use mental strategies to recall multiplication tables up to 10 x 10 and use to solve division problems
Facts 06.03	multiply numbers and decimals by a multiple of 10, e.g. 15 x 30, 1.4cm x 20
Facts 07.01	read and write numbers of any size and use the four operations and the connections between them, e.g. apply division as the inverse of multiplication
Facts 07.02	recognise and apply key mental facts and strategies
Facts 07.03	use appropriate strategies for multiplication and division, including application of known facts
Facts 07.04	use the terms square and square root
Fractions 06.01	use understanding of simple fraction, decimal and percentage equivalences, e.g. find 25% of 60cm and know that this is equivalent to $\frac{1}{4}$ of 60cm
Fractions 06.02	calculate percentage quantities based on 10%, e.g. 20%, 5%, 15%
Fractions 06.03	use simple ratio and proportion
Fractions 07.01	use equivalence of fractions, decimals and percentages to compare proportions
Fractions 07.02	recognise that some fractions are recurring decimals, e.g. $\frac{1}{3}$ is 0.33 '3
Fractions 07.03	calculate percentages of quantities using non-calculator methods where appropriate
Fractions 07.04	use ratio and proportion including map scales
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 06.01	read and interpret scales or divisions on a range of measuring instruments
Measures 06.02	record measurements in different ways, e.g. 1.3kg = 1kg 300g
Measures 06.03	use the language of imperial units in daily use, e.g. miles, pints
Measures 07.01	find perimeters of shapes with straight sides
Measures 07.02	read and interpret scales on a range of measuring instruments
Measures 07.03	convert between units of the metric system and carry out calculations
Money	
Money 06.01	use the terms profit and loss in buying and selling activities and make calculations for this
Money 06.02	understand the advantages and disadvantages of using bank accounts
Money 06.03	make comparisons between prices and understand which is best value for money
Money 07.01	use profit and loss in buying and selling calculations
Money 07.02	understand the advantages and disadvantages of using bank accounts, including bank cards
Money 07.03	make informed decisions relating to discounts and special offers

Number

Processes

Processes 06.01	transfer mathematical skills to a variety of contexts and everyday situations
Processes 06.02	identify the appropriate steps and information needed to complete the task or reach a solution
Processes 06.03	select appropriate mathematics and techniques to use
Processes 06.04	select and use suitable instruments and units of measurement
Processes 06.05	choose an appropriate mental or written strategy and know when it is appropriate to use a calculator
Processes 06.06	estimate and visualise size when measuring and use the correct units
Processes 07.01	transfer mathematical skills across the curriculum in a variety of contexts and everyday situations
Processes 07.02	select, trial and evaluate a variety of possible approaches and break complex problems into a series of tasks
Processes 07.03	prioritise and organise the relevant steps needed to complete the task or reach a solution
Processes 07.04	choose an appropriate mental or written strategy and know when it is appropriate to use a calculator
Processes 07.05	use a scientific calculator to carry out calculations effectively and efficiently using the available range of function keys
Processes 07.06	identify, measure or obtain required information to complete the task
Processes 07.07	identify what further information might be required and select what information is most appropriate
Processes 07.08	select appropriate mathematics and techniques to use
Processes 07.09	estimate and visualise size when measuring and use the correct units

Review

Review 06.01	select from an increasing range of checking strategies to decide if answers are reasonable
Review 06.02	interpret answers within the context of the problem and consider whether answers, including calculator, analogue and digital displays, are sensible
Review 06.03	draw conclusions from data and recognise that some conclusions may be misleading or uncertain
Review 07.01	select and apply appropriate strategies to check
Review 07.02	interpret answers within the context of the problem and consider whether answers, including calculator, analogue and digital displays, are sensible
Review 07.03	verify and justify results or solutions, including discussion on risk and chance where relevant
Review 07.04	interpret mathematical information; draw inferences from graphs, diagrams and data, including discussion on limitations of data
Review 07.05	draw conclusions from data and recognise that some conclusions may be misleading or uncertain

Temperature

Temperature 06.01	measure and record temperatures involving positive and negative readings
Temperature 06.02	calculate temperature differences, including those involving temperature rise and fall across 0°C
Temperature 07.01	record temperatures in appropriate temperature scales

Time

Time 06.01	use and interpret timetables and schedules to plan events and activities and make calculations as part of the planning process
Time 06.02	estimate how long a journey takes
Time 06.03	time events in minutes and seconds to the nearest tenth of a second
Time 07.01	measure and record time in hundredths of a second
Time 07.02	use time zones