

Basic details	Description
Angle and Pos 09.01	apply understanding of bearings and scale to interpret maps and plans, and to create plans and drawings to scale
Angle and Pos 10.01	apply proportional change to 2-dimensional designs
Area Vol	
Area Vol 09.01	find areas of circles
Calculate	
Calculate 09.01	use efficient written methods to add and subtract numbers and decimals of any size, including a mixture of large and small numbers with differing numbers of decimal places
Calculate 09.02	multiply and divide whole numbers and decimals
Calculate 09.03	defnyddio drefn gweithrediadau gan gynnwys cromfachau a phwerau
Communicate	
Communicate 09.01	explain results and procedures precisely using appropriate mathematical language
Communicate 09.02	refine methods of recording calculations
Communicate 09.03	use appropriate notation, symbols and units of measurement, including compound measures
Communicate 09.04	select and construct appropriate charts, diagrams and graphs with suitable scales
Communicate 09.05	interpret graphs that describe real-life situations, including those used in the media, recognising that some graphs may be misleading
Communicate 10.01	explain results and procedures precisely using appropriate mathematical language
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Communicate 10.03	use appropriate notation, symbols and units of measurement, including compound measures
Communicate 10.04	select and construct appropriate charts, diagrams and graphs with suitable scales
Communicate 10.05	interpret graphs that describe real-life situations, including those used in the media, recognising that some graphs may be misleading
Data	
Data 09.01	test hypotheses, making decisions about how best to record and analyse the information from large data sets
Data 09.02	construct and interpret graphs and diagrams (including pie charts) to represent discrete or continuous data, with the learner choosing an appropriate scale
Data 09.03	select and justify statistics most appropriate to the problem considering extreme values (outliers)
Data 09.04	examine results critically, select and justify choice of statistics recognising the limitations of any assumptions and their effect on the conclusions drawn
Data 09.05	use appropriate mathematical instruments and methods to construct accurate drawings.
Data 10.01	understand slopes and gradients of graphs and relate to compound measures.
Estimate	

Estimate 09.01	make and justify estimates and approximations of calculations
Estimate 09.02	choose the appropriate degree of accuracy to present answers
Estimate 10.01	recognise and define limitations on accuracy of measurements
Facts	
Facts 09.01	use powers and understand the importance of powers of 10
Facts 09.02	show awareness of the need for standard form and its representation on a calculator
Facts 10.01	use and interpret numbers in standard form within calculations
Fractions 09.01	use equivalence of fractions, decimals and percentages to select the most appropriate for a calculation
Fractions 09.02	use and interpret different representations of fractions, e.g. mixed numbers and improper fractions
Fractions 09.03	express one quantity as a percentage of another
Fractions 09.04	calculate a percentage increase or decrease
Fractions 09.05	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 09.01	find circumferences of circles
Measures 09.02	creating links between speed, distance and time
Measures 10.01	understand and use a variety of compound measures
Money	
Money 09.01	calculate using foreign money and exchange rates
Money 09.02	understand the risks involved in different ways of saving and investing
Money 09.03	describe why insurance is important and understand the impact of not being insured
Money 10.01	use and understand efficient methods of calculating compound interest
Money 10.02	understand and demonstrate the real-life process of foreign exchange
Money 10.03	understand and calculate income tax
Number	
Processes	
Processes 09.01	transfer mathematical skills across the curriculum in a variety of contexts and everyday situations
Processes 09.02	select, trial and evaluate a variety of possible approaches and break complex problems into a series of tasks
Processes 09.03	prioritise and organise the relevant steps needed to complete the task or reach a solution
Processes 09.04	choose an appropriate mental or written strategy and know when it is appropriate to use a calculator
Processes 09.05	use a scientific calculator to carry out calculations effectively and efficiently using the available range of function keys
Processes 09.06	identify, measure or obtain required information to complete the task

Processes 09.07	identify what further information might be required and select what information is most appropriate
Processes 09.08	select appropriate mathematics and techniques to use
Processes 09.09	estimate and visualise size when measuring and use the correct units
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Reason	
Review	
Review 09.01	select and apply appropriate checking strategies
Review 09.02	interpret answers within the context of the problem and consider whether answers, including calculator, analogue and digital displays, are sensible
Review 09.03	verify and justify results or solutions, including discussion on risk and chance where relevant
Review 09.04	interpret mathematical information; draw inferences from graphs, diagrams and data, including discussion on limitations of data
Review 09.05	draw conclusions from data and recognise that some conclusions may be misleading or uncertain
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Temperature	
Temperature 09.01	convert temperatures between appropriate temperature scales