Handling data

Decimals, percentages and fractions

Understanding space and shape

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Using money and time

Using calculation

Using number

Cambridge PROGRESSION

Mapping

Cambridge Progression Mathematics → Functional Skills Mathematics → GCSE Mathematics

This resource shows you how units from Cambridge Progression link to the relevant units and coverage and range of Functional Skills through to the relevant units and criteria in GCSE.

By starting with a **Cambridge Progression** unit and progressing to **Functional Skills**, your learners can build upon their knowledge and skills to achieve a **GCSE**.

Please note: unmapped Learning Outcomes (ie those with no equivalents) are listed in **red**.

Click on any of the tabs on the left to see more.

www.ocr.org.uk/progression

OCR

Cambridge PROGRESSION

Using number

Entry 1

Entry code 5736
Unit 1
Numbers from 0 to 10

Unmapped: LO3, L04

Functional Skills

Unit number and coverage/range

LO1	**E2 (b)** Understand and use addition/subtraction in practical situations.
LO2	**E1 (a)** Understand and use numbers with one significant figure in practical contexts.

GCSE

Unit number and criteria

Cambridge PROGRESSION

Using calculation

		Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
Level 2			
Entry code 5761 **Unit 26** **Calculations with whole numbers, simple ratio and direct proportion**	**LO1**	**(N1)** Understand and use positive and negative numbers of any size in practical contexts.	
	LO2	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO3	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO4	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO5	**(N3)** Understand, use and calculate ratio and proportion, including problems involving scale.	**J562 (FC4: 4.2)** Understand and use direct and indirect proportion. Use ratio notation, including reduction to its simplest form and the various links to fraction notation and Divide a quantity in a given ratio.
	LO6	**(N3)** Understand, use and calculate ratio and proportion, including problems involving scale.	**J562 (FC4: 4.2)** Understand and use direct and indirect proportion. Use and interpret maps and scale drawings. **(FB3: 3.6)** Interpret fractions, decimals and percentages as operators.
	LO7	**(A1)** Understand and use simple formulae and equations involving one or two operations.	**J562 (HB5: 5.1)** Distinguish the different roles played by letter symbols in algebra, using the correct notation. Set up and solve simple equations including simultaneous equations in two unknowns.
Level 1			
Entry code 5756 **Unit 21** **Calculations with whole numbers, simple ratio and direct proportion**	**LO1**	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts.	**J562 (FA2: 2.1)** Order rational numbers.
	LO2	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO3	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO4	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
	LO5	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies.	**J562 (FA5: 5.1)** Use the concepts and vocabulary of factor, multiple, common factor, highest common factor, least common multiple, prime number and prime factor decomposition. Use the terms square, positive and negative square root, cube and cube root.
	LO6	**(N5)** Solve simple problems involving ratio, where one number is a multiple of the other.	**J562 (HA4: 4.1)** Use ratio notation, including reduction to its simplest form and its various links to fraction notation. **(HA4: 4.2)** Understand and use direct and indirect proportion. **(FA4: 4.2)** Divide a quantity in a given ratio.
	LO7	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts.	**J562 (FC2: 2.2)** Approximate to specified or appropriate degrees of accuracy including a given power of ten, number of decimal places and significant figures.
	LO8	**(N6)** Use simple formulae expressed in words for one- or two-step operations.	**J562 (FA8: 8.2)** Set up and solve simple equations including simultaneous equations in two unknowns.
Entry 3			
Entry code 5749 **Unit 14** **Calculations with whole numbers** Unmapped: LO1, L02	**LO3**	**E3 (a)** Add and subtract using three-digit numbers.	
	LO4	**E3 (b)** Solve practical problems involving multiplication and division by 2,3,4,5 and 10.	
	LO5	**E3 (b)** Solve practical problems involving multiplication and division by 2,3,4,5 and 10.	
	LO6	**E3 (b)** Solve practical problems involving multiplication and division by 2,3,4,5 and 10.	
	LO7	**E3 (c)** Round to the nearest 10 or 100.	
	LO8	**E3 (f)** Recognise and describe number patterns.	
Entry 2			
Entry code 5742 Unmapped: LO1 **Unit 7** **Add, subtract and multiply whole numbers**	**LO2**	**E2 (a)** Understand and use whole numbers with up to two significant figures.	
	LO3	**E2 (a)** Understand and use whole numbers with up to two significant figures.	
	LO4	**E3 (b)** Solve practical problems involving multiplication and division by 2,3,4,5 and 10.	
	LO5	**E3 (c)** Round to the nearest 10 or 100.	
Entry 1			
Entry code 5737 Unmapped: LO3, L04 **Unit 2** **Add and subtract whole numbers**	**LO1**	**E1 (a)** Understand and use numbers with one significant figure in practical contexts.	
	LO2	**E1 (a)** Understand and use numbers with one significant figure in practical contexts.	

Cambridge PROGRESSION

Using money and time

			Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
Level 1	Entry code 5758 Unit 23 Calculate with money without a calculator	LO1	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies. **(G1)** Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number. **(HA4: 4.1)** Use decimal notation.
Entry 3	Entry code 5748 Unit 13 Decimals in money and length	LO1	**E3 (e)** Understand decimals to two decimals places in practical contexts. **E3 (g)** Complete simple calculations involving money and measure.	
		LO2	**E3 (a)** Add and subtract three-digit numbers. **E3 (g)** Complete simple calculations involving money and measure.	
		LO3	**E3 (c)** Round to the nearest 10 or 100.	
		LO4	**E3 (i)** Use metric units in everyday situations.	
Entry 2	Entry code 5743 Unit 8 Unmapped: LO3 Time and date formats and simple money calculations	LO1	**E2 (d)** Recognise and use familiar measure, including time and money.	
		LO2	**E2 (b)** Understand and use addition/subtraction in practical situations.	
		LO4	**E2 (d)** Recognise and use familiar measure, including time and money.	
Entry 1	Entry code 5738 Unit 3 Money and time	LO1	**E1 (d)** Recognise ans select coins and notes.	
		LO2	**E1 (d)** Recognise ans select coins and notes.	

Cambridge PROGRESSION

Using measure and time

Level 2

Entry code 5756
Unit 21
Using formula for shape, space and measurement conversions

Level 1

Entry code 5755
Unit 20
Read and calculate units of measurement and time

Entry 3

Entry code 5750
Unit 15
Unmapped: LO1

Read and measure time, distance, weight, capacity, lengths and temperature

	Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
LO1	**(G2)** Find area, perimeter and volume of common shapes.	**J562 (HC10: 10.1)** Calculate perimeters and areas of shapes made from triangles and rectangles and find circumference and area of circles.
LO2	**(G2)** Find area, perimeter and volume of common shapes.	**J562 (HC10: 10.1)** Calculate perimeters and areas of shapes made from triangles and rectangles and find circumference and area of circles.
LO3	**(G2)** Find area, perimeter and volume of common shapes.	**J562 (HC10: 10.1)** Calculate volumes of right prisms and of shapes made from cubes and cuboids.
LO4	**(G1)** Recognise and use 2D representations of 3D objects.	**J562 (HC10: 10.2)** Describe and transform 2D shapes using single or combined rotations, reflections, translations or enlargements by a positive scale factor then use positive fractional and negative scale factors and distinguish properties that are preserved under particular transformations. Recognise reflection and rotation symmetry of 2D shapes.
LO5	**(N3)** Understand, use and calculate ratio and proportion, including problems involving scale.	**J562 (HC9: 9.1)** Use ratio notation, including reduction to its simplest form and its various links to fraction notations. Use and interpret maps and scale drawings.
LO6	**(G3)** Use, convert and calculate using metric and, where appropriate, imperial measures.	**J562 (HC9: 9.1)** Interpret scales on a range of measuring instruments and recognise the inaccuracy of measurements. Convert measurements from one unit to another.
LO7	**(G3)** Use, convert and calculate using metric and, where appropriate, imperial measures.	**J562 (HC9: 9.1)** Interpret scales on a range of measuring instruments and recognise the inaccuracy of measurements. Convert measurements from one unit to another.
LO1	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts.	**J562 (HC9: 9.1)** Interpret scales on a range of measuring instruments and recognise the inaccuracy of measurements.
LO2	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(G1)** Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature.	**J562 (HC9: 9.1)** Interpret scales on a range of measuring instruments and recognise the inaccuracy of measurements.
LO3	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
LO4	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(G2)** Convert units of measure in the same system.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number • Understand and use number operations and the relationships between them, including inverse operations and the hierarchy of operations • Convert measurements from one unit to another.
LO5	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(G2)** Convert units of measure in the same system.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number • Understand and use number operations and the relationships between them, including inverse operations and the hierarchy of operations • Convert measurements from one unit to another.
LO6	**(N1)** Understand and use whole numbers and understand negative numbers in practical contexts. **(G1)** Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature.	**J562 (HA4: 4.1)** Use ratio notation, including reduction to its simplest form and its various links to fraction notation. **(HA4: 4.2)** Understand and use direct and indirect proportion. **(FA4: 4.2)** Divide a quantity in a given ratio.
LO2	**E3 (e)** Understand, estimate, measure and compare length, capacity, weight and temperature. **E3 (i)** Use metric units in everyday situations.	
LO3	**E3 (i)** Use metric units in everyday situations.	
LO4	**E3 (e)** Understand, estimate, measure and compare length, capacity, weight and temperature.	
LO5	**E3 (e)** Understand, estimate, measure and compare length, capacity, weight and temperature.	
LO6	**E3 (e)** Understand, estimate, measure and compare length, capacity, weight and temperature.	
LO7	**E3 (e)** Understand, estimate, measure and compare length, capacity, weight and temperature.	

Cambridge PROGRESSION

Understanding space and shape

			Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
Level 1	Entry code 5753 Unit 18 Calculating shape and space of regular and non-regular shapes	LO1		**J562 (HC10: 10.1)** Recall and use properties of angles at a point on a straight line (including right angles) perpendicular lines and opposite angles at the vertex.
		LO2	**(G4)** Construct geometric diagrams, models and shapes.	**J562 (HC10: 10.1)** Recall the properties and definitions of special types of quadrilaterals including square, rectangle, parallelogram, trapezium, kite and rhombus. Recognise reflection and rotation symmetry of 2D shapes.
		LO3	**(G2)** Convert units of measure in the same system. **(G3)** work out areas and perimeters in practical situations.	**J562 (HC10: 10.1)** Calculate perimeters and areas of shapes made from triangles and rectangles. Calculate volumes of right prisms and of shapes made from cubes and cuboids.
Entry 3	Entry code 5752 Unmapped: LO2 Unit 17 Understand the properties and perimeters of regular shapes and compass directions	LO1	**E3 (h)** Recognise and name simple 2D and 3D shapes and their properties.	
Entry 2	Entry code 5744 Unit 9 Understand common regular shapes and positional vocabulary	LO1	**E2 (g)** Know properties of simple 2D and 3D shapes.	
		LO2	**E2 (g)** Know properties of simple 2D and 3D shapes.	
		LO3	**E1 (c)** Describe position.	
Entry 1	Entry code 5739 Unit 4 Understand common regular shapes and positional vocabulary	LO1	**E1 (e)** Recognise and name common 2D and 3D shapes.	
		LO2	**E1 (e)** Recognise and name common 2D and 3D shapes.	
		LO3	**E1 (c)** Describe position.	

Cambridge PROGRESSION

Decimals, percentages and fractions

		Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
Level 2 **Entry code 5760** **Unit 25** **Fractions and decimals**	**LO1**	**(N4)** Understand and use equivalences between fractions, decimals and percentages.	**J562 (FB3: 3.3)**Understand equivalent fractions, simplifying a fraction by cancelling all common factors.
	LO2	**(N4)** Understand and use equivalences between fractions, decimals and percentages.	**J562 (FB3: 3.3)** Understand equivalent fractions, simplifying a fraction by cancelling all common factors.
	LO3	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FB3: 3.1)** Add and subtract fractions.
	LO4	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number. Use decimal notation and recognise that each terminating decimal is a fraction.
	LO5	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FA2: 2.1)** Add, subtract, multiply and divide any number • Use decimal notation and recognise that each terminating decimal is a fraction. • Interpret fractions, decimals and percentages as operators.
	LO6	**(N2)** Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.	**J562 (FB3: 3.4)** Use decimal notation and recognise that each terminating decimal is a fraction. Approximate to specified or appropriate degrees of accuracy including a given power of ten, number of decimal places and significant figures.
Level 1 **Entry code 5754** **Unit 19** **Fractions, decimals and percentages**	**LO1**	**(N3)** Understand and use equivalences between common fractions, decimals and percentages.	**J562 (FB3: 3.3)** Understand equivalent fractions, simplifying a fraction by cancelling all common factors.
	LO2	**(N3)** Understand and use equivalences between common fractions, decimals and percentages.	**J562 (FB3: 3.1)** Add, subtract, multiply and divide any number Interpret fractions, decimals and percentages as operators.
	LO3	**(N3)** Understand and use equivalences between common fractions, decimals and percentages. **(N4)** Add and subtract decimals up to two decimal places.	**J562 (FB3: 3.2)** Order rational numbers using decimal notation and recognise that each terminating decimal is a fraction.
	LO4	**(N4)** Add and subtract decimals up to two decimal places.	**J562 (FB3: 3.1)** Add, subtract, multiply and divide any number Use decimal notation and recognise that each terminating decimal is a fraction. Interpret fractions, decimals and percentages as operators.
	LO5	**(N3)** Understand and use equivalences between common fractions, decimals and percentages.	**J562 (FB3: 3.5)** Understand that 'percentage' means 'number of parts per 100' and use this to compare proportions.
	LO6	**(N3)** Understand and use equivalences between common fractions, decimals and percentages. **(N2)** Add, subtract, multiply and divide whole numbers using a range of strategies.	**J562 (FB3: 3.6)** Use percentage, repeated proportional change Interpret fractions, decimals and percentages as operators.
Entry 3 **Entry code 5747** **Unit 12** **Simple fractions**	**LO1**	**E3 (d)** Understand and use simple fractions.	
	LO2	**E3 (d)** Understand and use simple fractions.	
	LO3	**E3 (d)** Understand and use simple fractions.	
Entry 2 **Entry code 5745** Unmapped: LO3,LO4 **Unit 10** **Simple fractions and common units of measurement**	**LO1**	**E2 (c)** Use doubling and halving in practical situations.	
	LO2	**E2 (d)** Recognise and use familiar measure including time and money.	
Entry 1 **Entry code 5740** **Unit 5** **Compare and order items by measurement**	**LO1**	**E1(f)** Sort and classify objects practically using a single criterion.	
	LO2	**E1(f)** Sort and classify objects practically using a single criterion.	
	LO3	**E1(f)** Sort and classify objects practically using a single criterion.	

Cambridge PROGRESSION

Handling data

		Functional Skills Unit number and coverage/range	GCSE Unit number and criteria
Level 2			
Entry code 5759 **Unit 24** **Compare and interpret data and record probability**	**LO1**	**(S1)** Collect and represent discrete and continuous data, using information and communication technology (ICT) where appropriate. **(S2)** Use and interpret statistical measures, tables and diagrams, for discrete and continuous data, using information and communication technology (ICT) where appropriate.	**J562 (HA14: 14.1)** Understand and use statistical problem solving process/handling data cycle.
	LO2	**(S1)** Collect and represent discrete and continuous data, using information and communication technology (ICT) where appropriate. **(S2)** Use and interpret statistical measures, tables and diagrams, for discrete and continuous data, using information and communication technology (ICT) where appropriate.	**J562 (FA13: 13.1)** Design data-collection sheets, distinguishing between different types of data. Design and use two-way tables for discrete and grouped data. Produce charts and diagrams for various data types.
	LO3	**(S3)** Use statistical methods to investigate situations.	**J562 (HA14: 14.3)** Calculate median, mean, range, mode and modal class
	LO4	**(S3)** Use statistical methods to investigate situations.	**J562 (HA14: 14.3)** Calculate median, mean, range, quartiles and inter-quartile range, mode and modal class, Compare distributions and make inferences.
	LO5	**(S3)** Use statistical methods to investigate situations.	**J562 (HA14: 14.3)** Calculate median, mean, range, mode and modal class Compare distributions and make inferences.
	LO6	**(S4)** Use probability to assess the likelihood of an outcome.	**J517 (D6.1)** Understand and use estimates or measures of probability from theoretical models, (including equally likely outcomes), or from relative frequency. Identify different mutually exclusive outcomes and know that the sum of the probabilities of all these outcomes is 1.
	LO7	**(S4)** Use probability to assess the likelihood of an outcome.	**J562 (HC12 12.1)** List all outcomes for single events and for two successive events, in a systematic way and derive related probabilities
Level 1			
Entry code 5757 **Unit 22** **Interpret data and the outcomes of events**	**LO1**	**(S1)** Extract and interpret information from tables, diagrams, charts and graphs.	**J562 (FA13: 13.1)** Extract data from printed tables and lists • Interpret a wide range of graphs and diagrams and draw conclusions.
	LO2	**(S2)** Collect and record discrete data and organise and represent information in different ways.	**J562 (FA13: 13.1)** Design data-collection sheets, distinguishing between different types of data.
	LO3	**(S2)** Collect and record discrete data and organise and represent information in different ways.	**J562 (FA13: 13.1)** Design data-collection sheets, distinguishing between different types of data . Produce charts and diagrams for various data types.
	LO4	**(S3)** Find mean and range.	**J562 (HA14: 14.3)** Calculate median, mean, range, mode and modal class. Compare distributions and make inferences.
	LO5	**(S3)** Find mean and range.	**J562 (HA14: 14.3)** Calculate median, mean, range, mode and modal class.
	LO6	**(S4)** Use data to assess the likelihood of an outcome.	**J562 (HC12 12.1)** Understand and use the vocabulary of probability and the probability scale.
	LO7	**(S4)** Use data to assess the likelihood of an outcome.	**J562 (HC12 12.1)** Understand and use the vocabulary of probability and the probability scale. Understand and use estimates or measures of probability from theoretical models, (including equally likely outcomes), or from relative frequency. List all outcomes for single events, and for two successive events in a systematic way and derive related probabilities.
Entry 3			
Entry code 5751 **Unit 16** **Extract and interpret data**	**LO1**	**E3 (j)** Extract, use and compare information from lists, tables, simple charts and simple graphs.	
	LO2	**E3 (j)** Extract, use and compare information from lists, tables, simple charts and simple graphs.	
	LO3	**E3 (j)** Extract, use and compare information from lists, tables, simple charts and simple graphs.	
	LO4	**E3 (j)** Extract, use and compare information from lists, tables, simple charts and simple graphs.	
Entry 2			
Entry code 5746 Unmapped: LO2,LO5 **Unit 11** **Extract, sort and present data for interpretation**	**LO1**	**E2 (h)** Extract information from simple lists.	
	LO3	**E1 (f)** sort and classify objects practically using a single criterion.	
	LO4	**E2 (h)** Extract information from simple lists.	
Entry 1			
Entry code 5741 Unmapped: LO1,LO3 **Unit 6** **Extract and sort data**	**LO2**	**E1 (f)** sort and classify objects practically using a single criterion.	