



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.



Using number

Functional Skills Unit number and coverage/range

GCSE
Unit number and criteria

Using number

Using calculation

Using money and time

Using measure and time

Understanding space and shape

Decimals, percentages and fractions

Handling data

Entry 1

Entry code 5736
Unit 1
Numbers from 0 to 10

Unmapped: L03, L04

L01

E2 (b) Understand and use addition/subtraction in practical situations.

L02

E1 (a) Understand and use numbers with one significant figure in practical contexts.

Handling data

Decimals, percentages and fractions

Understanding space and shape

Using measure and time

Using money and time

Using calculation

Using number

Level 2

Level 1

Entry 3

Entry 2

Entry 1

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.
- LO3** (N2) Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.
- LO4** (N2) Carry out calculations with numbers of any size in practical contexts, to a given number of decimal places.
- LO5** (N3) Understand, use and calculate ratio and proportion, including problems involving scale.
- LO6** (N3) Understand, use and calculate ratio and proportion, including problems involving scale.
- LO7** (A1) Understand and use simple formulae and equations involving one or two operations.

- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- 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.
- 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.
- 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.

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.
- 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.
- 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.
- 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.
- 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.
- LO6** (N5) Solve simple problems involving ratio, where one number is a multiple of the other.
- LO7** (N1) Understand and use whole numbers and understand negative numbers in practical contexts.
- LO8** (N6) Use simple formulae expressed in words for one- or two-step operations.

- J562 (FA2: 2.1)** Order rational numbers.
- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- J562 (FA2: 2.1)** Add, subtract, multiply and divide any number.
- 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.
- 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.
- 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.
- J562 (FA8: 8.2)** Set up and solve simple equations including simultaneous equations in two unknowns.

Entry code 5749
Unit 14
Calculations with whole numbers

Unmapped: LO1, LO2

- 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 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 code 5737
Unmapped: LO3, LO4 **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.



Using money and time

Functional Skills Unit number and coverage/range

GCSE Unit number and criteria

- Using number
- Using calculation
- Using money and time
- Using measure and time
- Understanding space and shape
- Decimals, percentages and fractions
- Handling data

Entry 1	Entry code 5738 Unit 3 Money and time	LO1	E1 (d) Recognise and select coins and notes.
		LO2	E1 (d) Recognise and select coins and notes.
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 3	Entry code 5748 Unit 13 Decimals in money and length	LO1	E3 (e) Understand decimals to two decimal 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.
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.



Using measure and time

Functional Skills Unit number and coverage/range

GCSE Unit number and criteria

Handling data

Decimals, percentages and fractions

Understanding space and shape

Using measure and time

Using money and time

Using calculation

Using number

Level 2

Level 1

Entry 3

Entry code 5756 Unit 21

Using formula for shape, space and measurement conversions

- LO1 (G2) Find area, perimeter and volume of common shapes.
- LO2 (G2) Find area, perimeter and volume of common shapes.
- LO3 (G2) Find area, perimeter and volume of common shapes.
- LO4 (G1) Recognise and use 2D representations of 3D objects.
- LO5 (N3) Understand, use and calculate ratio and proportion, including problems involving scale.
- LO6 (G3) Use, convert and calculate using metric and, where appropriate, imperial measures.
- LO7 (G3) Use, convert and calculate using metric and, where appropriate, imperial measures.

- J562 (HC10: 10.1) Calculate perimeters and areas of shapes made from triangles and rectangles and find circumference and area of circles.
- J562 (HC10: 10.1) Calculate perimeters and areas of shapes made from triangles and rectangles and find circumference and area of circles.
- J562 (HC10: 10.1) Calculate volumes of right prisms and of shapes made from cubes and cuboids.
- 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.
- 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.
- 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.
- 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.

Entry code 5755 Unit 20

Read and calculate units of measurement and time

- LO1 (N1) Understand and use whole numbers and understand negative numbers in practical contexts.
- 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.
- LO3 (N1) Understand and use whole numbers and understand negative numbers in practical contexts.
- LO4 (N1) Understand and use whole numbers and understand negative numbers in practical contexts.
(G2) Convert units of measure in the same system.
- LO5 (N1) Understand and use whole numbers and understand negative numbers in practical contexts.
(G2) Convert units of measure in the same system.
- 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 (HC9: 9.1) Interpret scales on a range of measuring instruments and recognise the inaccuracy of measurements.
- J562 (FA2: 2.1) Add, subtract, multiply and divide any number.
- 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.
- 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.
- 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.

Entry code 5750 Unit 15

Unmapped: LO1

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

- 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.



Understanding space and shape

Functional Skills Unit number and coverage/range

GCSE Unit number and criteria

- Using number
- Using calculation
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- Using measure and time
- Understanding space and shape
- Decimals, percentages and fractions
- Handling data

Level 1

Entry code 5753
Unit 18
Calculating shape and space of regular and non-regular shapes

LO1

LO2

LO3

(G4) Construct geometric diagrams, models and shapes.

(G2) Convert units of measure in the same system.
(G3) work out areas and perimeters in practical situations.

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.

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.

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
Unit 17
Unmapped: LO2 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.

Handling data

Decimals, percentages and fractions

Understanding space and shape

Using measure and time

Using money and time

Using calculation

Using number

Level 2

Level 1

Entry 3

Entry 2

Entry 1

Entry code 5760
Unit 25
Fractions and decimals

L01

(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.

L02

(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.

L03

(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.

L04

(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.

L05

(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.

L06

(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.

Entry code 5754
Unit 19
Fractions, decimals and percentages

L01

(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.

L02

(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.

L03

(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.

L04

(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.

L05

(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.

L06

(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 code 5747
Unit 12
Simple fractions

L01

E3 (d) Understand and use simple fractions.

L02

E3 (d) Understand and use simple fractions.

L03

E3 (d) Understand and use simple fractions.

Entry code 5745
Unit 10
Simple fractions and common units of measurement
Unmapped: LO3, LO4

L01

E2 (c) Use doubling and halving in practical situations.

L02

E2 (d) Recognise and use familiar measure including time and money.

Entry code 5740
Unit 5
Compare and order items by measurement

L01

E1(f) Sort and classify objects practically using a single criterion.

L02

E1(f) Sort and classify objects practically using a single criterion.

L03

E1(f) Sort and classify objects practically using a single criterion.



Handling data

Functional Skills Unit number and coverage/range

GCSE Unit number and criteria

Handling data

Decimals, percentages and fractions

Understanding space and shape

Using measure and time

Using money and time

Using calculation

Using number

Level 2

Level 1

Entry 3

Entry 2

Entry 1

**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

**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 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 code 5746
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 code 5741
Unit 6**

Extract and sort data

LO2

E1(f) sort and classify objects practically using a single criterion.

Unmapped: LO2,LO5

Unmapped: LO1,LO3