Open Awards Level 1 Functional Skills Qualification in Mathematics

The Open Awards Level 1 Functional Skills Qualification in Mathematics supports learners to apply their mathematical skills, through appropriate reasoning and decision making, to solve realist problems of increasing complexity.

Learners should be:

- Introduced to new areas of life and work so that they are exposed to concepts and problems which, while not of immediate concern, may be value in later life
- Enabled to develop an appreciate of the role playing by mathematics in the world of work and in life generally
- Able to use these skills autonomously, applying them to a range of formal and informal contexts, in the workplace and in real life.

Scope of Study

The scope of study (SOS) for Level 1 Mathematics is included below:

Use of number and the number system: Learners at Level 1 are expected to be able to:

- Count in steps of various sizes, including negative numbers
- Read, write, and understand positive whole numbers to one million
- Order and compare whole numbers of any size, and fractions, ratios and decimals and recognise the effect of multiplying and diving by powers of 10, 100 and 1000
- Identify, compare, and extend a range of numerical and spatial patterns
- Use, understand and calculate with fractions, decimals, and percentages
- Calculate simple interest

1	Read, write, order and compare large numbers (up to one million)
2	Recognise and use positive and negative numbers
3	Multiply and divide whole numbers and decimals by 10, 100 and 1000
4	Use multiplication facts and make connections with division facts
5	Use simple formulae expressed in words for one or two-step operations
6	Calculate the squares of one-digit and two-digit numbers
7	Follow the order of precedence of operators
8	Read, write, order, and compare common fractions and mixed numbers
9	Find fractions of whole number quantities or measurements
10	Read, write order, and compare decimals up to three decimal places
11	Add, subtract, multiply and divine decimals up to two decimal places
12	Approximate by rounding to a whole number or to one of two decimal places
13	Read, write, order, and compare percentages in whole numbers
14	Calculate percentages of quantities, including simple percentage increases and decreases by 5% and multiples thereof
15	Estimate answers to calculations using fractions and decimals
16	Recognise and calculate equivalences between common fractions, percentages, and decimals

17	Work with simple ratio and direct proportions

Use of common measures, shape, and space: Learners at Level 1 are expected to be able to:

- Work out simple relationships between common units of measurement to define quantities, also involving mathematical terms for position and direction
- Apply and use calculations with common measures including money, time, length, weight, and capacity
- Visualise, draw, and describe 2-D and 3-D shapes and use properties of 2-D shapes in calculations.

1	Calculate simple interest in multiples of 5% on amounts of money
2	Convert between units of length, weight, capacity, money, and time, in the same system
3	Calculate the area and perimeter of simple shapes including those that are made up of a combination of rectangles
4	Draw 2-D shapes and demonstrate an understanding of line symmetry and knowledge of the relative size of angles.
5	Use angles when describing position and direction, and measure angles in degrees
6	Calculate discounts in multiples and 5% on amounts of money
7	Recognise and make use of simple scales on maps and drawings
8	Calculate the volumes of cubes and cuboids
9	Interpret plans, elevations, and nets of simple 3-D shapes

Handle information and date: learners at Level 1 are expected to be able to:

- Select, construct, and interpret a range of statistical diagrams in various contexts
- Select and use methods and forms to present and describe outcomes
- Extract and interpret information from tables, diagrams, charts, and graphs
- Apply simple statistics and recognise features of charts to summarise and compare sets of data
- Recognise and use the probability scale and interpret probabilities

1	Represent discrete data in tables, diagrams and charts including pie charts, bar charts and line graphs
2	Group discrete data and represent grouped data graphically
3	Find the mean and rage of a set of quantities
4	Understand probability on a scale from 0 (impossible) to 1 (certain) and use probabilities to compare the likelihood of events
5	Use equally likely outcomes to find the probabilities of simple events and express them as fractions