

FUNCTIONAL SKILLS MATHEMATICS (L2)

TOPIC CHECKLIST

Number
Read, write, order and compare positive and negative numbers
Add, subtract, multiply and divide numbers up to one million
Check answers using inverse operations
Use rounding to estimate and approximate answers
Work out percentages of amounts without and with calculator
Add, subtract, multiply and divide decimals
Ratio, direct and inverse proportion
Convert between fractions decimals and percentages
Percentage change
Reverse percentage
Compound interest
Order and compare amounts or quantities using proper and improper fractions and mixed numbers
Follow the order of operations including indices.
Substitute values into formula
Measures, Space and Shape
Make costings in different scenarios
Perimeters and areas of 2D rectangles, triangles and composite shapes and know the formula for area of triangles
Convert between metric and imperial units of length, weight, and capacity
Understand conversion graphs
Calculate the circumference and area of circles and know the formulas for these
Calculate actual dimensions from scale drawings
Create a scale drawing given actual measurements
Use positive and negative coordinates to specify the positions of points
Recognise and use 2D representation of 3D objects
Draw plans and elevations of 3D shapes
Calculate angles and coordinates with 2D and 3D shapes
Calculate surface area of 3D shapes including cylinders
Calculate volume of 3D shapes including cylinders
Handling Information and Data
Calculate the mode, median, range and mean of a set of quantities and compare data sets
Express probabilities as fractions, decimals, and percentages
Interpret scatter graphs and use them to make predictions using a line of best fit
Estimate the mean of grouped frequency
Calculate the probability of combined events
Use diagrams and two-way tables to calculate probability of combined events
Draw scatter graphs and recognise positive and negative correlation.