Number

Checklist for Edexcel Functional Skills Mathematics Level 2

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| Descriptor number | Descriptor | I am confident with this. | I need to revise this. | I need more help with this. |
| 1 | Read, write, order and compare positive and negative numbers of any size. |  |  |  |
| 2 | Carry out calculations with numbers up to one million, including strategies to check answers including estimation and approximation. |  |  |  |
| 3 | Evaluate expressions and make substitutions in given formulae in words and symbols. |  |  |  |
| 4 | Identify and know the equivalence between fractions, decimals and percentages. |  |  |  |
| 5 | Work out percentages of amounts and express one amount as a percentage of another. |  |  |  |
| 6 | Calculate percentage change (any size increase and decrease), and the original value after percentage change. |  |  |  |
| 7 | Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers. |  |  |  |
| 8 | Express one number as a fraction of another. |  |  |  |
| 9 | Order, approximate and compare decimals. |  |  |  |
| 10 | Add, subtract, multiply and divide decimals up to three decimal places. |  |  |  |
| 11 | Understand and calculate using ratios, direct proportion and inverse proportion. |  |  |  |
| 12 | Follow the order of precedence of operators, (BIDMAS) including indices. |  |  |  |

Shape, Space and Measure

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| 13 | Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgeting. |  |  |  |
| 14 | Convert between metric and imperial units of length, weight and capacity using both conversion factors and conversion graphs. |  |  |  |
| 15 | Calculate using compound measures including speed, density and rates of pay. |  |  |  |
| 16 | Calculate perimeters and areas of 2D shapes including triangles and circles and composite shapes including non-rectangular shapes. Formulae will be given for non-rectangular shapes other than triangles and circles. |  |  |  |
| 17 | Use formulae to find volumes and surface areas of 3D shapes including cylinders. Formulae will be given for 3D shapes other than cylinders. |  |  |  |
| 18 | Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements. |  |  |  |
| 19 | Use coordinates in 2D, positive and negative, to specify the positions of points. |  |  |  |
| 20 | Understand and use common 2D representations of 3D objects. |  |  |  |
| 21 | Draw 3D shapes to include plans and elevations. |  |  |  |
| 22 | Calculate values of angles and coordinates with 2D and 3D shapes. |  |  |  |

Data Handling

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| 23 | Calculate the median and mode of a set of quantities. |  |  |  |
| 24 | Estimate the mean of a grouped frequency distribution from discrete data. |  |  |  |
| 25 | Use the mean, median, mode and range to compare two sets of data. |  |  |  |
| 26 | Work out the probability of combined events including the use of diagrams and tables, including two-way tables and probability trees. |  |  |  |
| 27 | Express probabilities as fractions, decimals and percentages. |  |  |  |
| 28 | Draw and interpret scatter diagrams and recognise positive and negative correlation. |  |  |  |