**Pearson Functional Skills Mathematics Level 2**

**Scheme of Work overview**

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| **Subject content** |
| **Using numbers and the number system – whole numbers, factions, decimals and percentages** |
| 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 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, including indices  |
| **Using common measures, shape and space** |
| 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 a) a conversion factor and b) a conversion graph  |
| 15. Calculate using compound measures including speed, density and rates of pay  |
| 16. Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)  |
| 17. Use formulae to find volumes and surface areas of 3-D shapes including cylinders (formulae to be given for 3-D shapes other than cylinders)  |
| 18. Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements  |
| 19. Use coordinates in 2-D, positive and negative, to specify the positions of points  |
| 20. Understand and use common 2-D representations of 3-D objects  |
| 21. Draw 3-D shapes to include plans and elevations  |
| 22. Calculate values of angles and/or coordinates with 2-D and 3-D shapes  |
| **Handling information and data** |
| 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  |
| 27. Express probabilities as fractions, decimals and percentages  |
| 28. Draw and interpret scatter diagrams and recognise positive and negative correlation  |