ASHION COMMUNITY SCIENCE COUEGE: MATHS CURRICULUM

| Year 8 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Half term 1 | Half term 2 | Half term 3 | Half term 4 | Half term 5 | Half term 6 |
| Knowledge | Topic: <br> - Plotting Graphs <br> - Ratio and Proportion | Topic: <br> - Factors, Multiples and Primes <br> - Statistics | Topic: <br> - Probability <br> - 2D Shapes | Topic: <br> - Money <br> - Algebra | Topic: <br> - Percentages | Topic: <br> - 3D Shapes |
| Skills/ application of knowledge | - Plotting coordinates <br> - Plotting lineargraphs <br> - Plotting non-linear graphs <br> - $y=m x+c$ <br> - Drawing graphs <br> - Writing the equation of a straight line <br> - Using ratios <br> - Sharing into a ratio <br> - Map scales <br> - Proportion in real life contexts <br> - Direct proportion <br> - Indirect proportion | - Different types of numbers <br> - Identify factors and multiples <br> - Prime numbers <br> - Prime factorisation of a number <br> - Highest Common Factor <br> - Lowest common multiple <br> - Collecting data <br> - Recording data <br> - Graphs/Charts | - Probability <br> - Sample Space Diagram <br> - Venn Diagrams <br> - Tree diagrams <br> - Identifying 2D shapes <br> - Properties of shapes <br> - Symmetry <br> - Tessellations | - Solve money problems <br> - Solve budget problems <br> - Best value for money <br> - Simplifying algebraic expressions <br> - Evaluating indices <br> - Laws of indices <br> - Expanding brackets <br> - Factorising expressions <br> - Forming algebraic expressions | - Finding a percentage <br> - Percentage change <br> - Interest <br> - Comparing with percentages <br> - FDP | - Properties of 3D Shapes <br> - Identify and creating nets of shapes <br> - Sketch 3D shapes |
| Links to prior leaming | Substitution Fractions Algebra Equations Percentages Using Scales | Calculations Probability Averages | Statistics <br> Averages <br> 3D Shapes <br> Area and Perimeter | Calculations Plotting Graphs Substitution | Fractions Decimals Percentages Ratio \& Proportion Calculations | 2D Shapes Area and Perimeter |
| assessment | Check-ins Check-outs | Check-ins Check-outs | Check-ins Check-outs | Check-ins Check-outs | Check-ins Check-outs | Check-ins Check-outs |

