Year 7

| Timing | Unit Title | Key Question | Knowledge | Assessing Understanding |
| :---: | :---: | :---: | :---: | :---: |
| Autumn | Number work | Can you use all four operations correctly? | - Place value. <br> - Using the four operations. <br> - Long multiplication \& division. | How understanding is assessed <br> - by applying the theory to a range of questions and increasingly more complex situations <br> - discussion in lessons, sample problems <br> - homework and tests |
|  | Index notation | Do you know how to work with index notation and indices? | - Understanding the meaning of square, cube, square root and cube root of a number <br> - Understanding index notation |  |
|  | BIDMAS | Do you know the order of operations to use? | - Applying rules for order of operations. <br> - Using calculators to apply operations |  |
|  | Factors and multiples | Can you identify multiples and factors? | - Identifying multiples and factors of numbers <br> - Applying the above concepts to solve daily life problems | Skills <br> - understanding of the <br> - numerical skills <br> - problem solving skills <br> Assessment Point informatio |
|  | Directed numbers | Can you work with negative numbers? | - Recognising the use of negative numbers in the real world <br> - Adding, subtracting, dividing and multiplying with negative numbers. |  |
|  | Transformations, <br> Symmetry and <br> Congruence | Can you use rotational symmetry \& lines of reflections? Do you understand the idea of congruence? | - Translate, rotate and reflect 2D shapes <br> - Describe translations in vector form <br> - Combine transformations <br> - Understand the idea of congruence <br> - Match the sides and angles of two congruent shapes | - classroom tests relevant to topics studied |
|  | Collecting, Organising and Displaying Data | Can you use statistics and charts to present on a topic of your choosing? | - Recognise different methods of collecting data <br> - Identify and write appropriate survey questions <br> - Organise data |  |



## Department: Mathematics



