

| Year Five                                                                                                                                                                                                                         | Date(s)<br>seen | Have they shown<br>understanding at<br>greater depth? |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|
| <b>Number – Place Value</b>                                                                                                                                                                                                       |                 |                                                       |
| Know how to recognise the value of each digit of any 1, 000, 000                                                                                                                                                                  |                 |                                                       |
| Know how to read and write numbers up to 1, 000, 000                                                                                                                                                                              |                 |                                                       |
| Know how to compare numbers up to 1, 000, 000                                                                                                                                                                                     |                 |                                                       |
| Know how to count forwards and backwards in powers of 10 up to 1, 000, 000                                                                                                                                                        |                 |                                                       |
| Know how to round any number to the nearest 10, 100, 1000, 10, 000 or 100, 000                                                                                                                                                    |                 |                                                       |
| Know how to count forwards and backwards in negative numbers                                                                                                                                                                      |                 |                                                       |
| Know how to read and write Roman Numerals up to 1000                                                                                                                                                                              |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |
| <b>Number – Addition and Subtraction</b>                                                                                                                                                                                          |                 |                                                       |
| Know how to use mental methods of addition and subtraction for large numbers                                                                                                                                                      |                 |                                                       |
| Know how to add numbers with more than 4 digits using a written method                                                                                                                                                            |                 |                                                       |
| Know how to subtract numbers with more than 4 digits using a written method                                                                                                                                                       |                 |                                                       |
| Know how to use rounding to estimate an answer                                                                                                                                                                                    |                 |                                                       |
| Know how to solve multi-step word problems involving addition and subtraction                                                                                                                                                     |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |
| <b>Number – Multiplication and Division</b>                                                                                                                                                                                       |                 |                                                       |
| Know how to find common multiples                                                                                                                                                                                                 |                 |                                                       |
| Know how to find all factors of number                                                                                                                                                                                            |                 |                                                       |
| Know how to find common factors of multiple numbers                                                                                                                                                                               |                 |                                                       |
| Know how to find prime numbers up to 100                                                                                                                                                                                          |                 |                                                       |
| Know how to find squared and cubed numbers                                                                                                                                                                                        |                 |                                                       |
| Know how to multiply and divide mentally using known facts                                                                                                                                                                        |                 |                                                       |
| Know how to multiply and divide by 10, 100 and 1000                                                                                                                                                                               |                 |                                                       |
| Know how to multiply a 4 digit number by a 2 digit number using a formal written method                                                                                                                                           |                 |                                                       |
| Know how to divide a 4 digit number by a 1 digit number using a formal written method                                                                                                                                             |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |
| <b>Fractions</b>                                                                                                                                                                                                                  |                 |                                                       |
| Know how to compare and order fractions with denominators which are multiples of the same number                                                                                                                                  |                 |                                                       |
| Know how to calculate equivalent fractions                                                                                                                                                                                        |                 |                                                       |
| Know how to convert between mixed and improper fractions                                                                                                                                                                          |                 |                                                       |
| Know how to add fractions with denominators which are the same multiples                                                                                                                                                          |                 |                                                       |
| Know how to subtract fractions with denominators which are the same multiples                                                                                                                                                     |                 |                                                       |
| Know how to multiply mixed fractions by 1 digit numbers                                                                                                                                                                           |                 |                                                       |
| Know how to multiply improper fractions by 1 digit numbers                                                                                                                                                                        |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |
| <b>Decimals</b>                                                                                                                                                                                                                   |                 |                                                       |
| Know how to read and write decimals to thousandths in words and numbers including fractions                                                                                                                                       |                 |                                                       |
| Know the relationship between tenths, hundredths and thousandths                                                                                                                                                                  |                 |                                                       |
| Know the decimal equivalents of halves quarters and fifths                                                                                                                                                                        |                 |                                                       |
| Know how to order and compare decimal numbers up to 3 decimal places                                                                                                                                                              |                 |                                                       |
| Know how to round decimal numbers with 2 decimal places to the nearest whole number or 1 decimal place                                                                                                                            |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |
| <b>Percentages</b>                                                                                                                                                                                                                |                 |                                                       |
| Know the per cent symbol represents parts of 100                                                                                                                                                                                  |                 |                                                       |
| Know how to write percents as fractions and decimals                                                                                                                                                                              |                 |                                                       |
| Know how to solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ and $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25 |                 |                                                       |
| <b>Unit Level:</b>                                                                                                                                                                                                                |                 |                                                       |

| <b>Measurement</b>                                                                          |  |  |
|---------------------------------------------------------------------------------------------|--|--|
| Know how to convert units of length                                                         |  |  |
| Know how to convert units of mass                                                           |  |  |
| Know how to convert units of volume                                                         |  |  |
| Know how to convert between metric and imperial measures (cm to inches and pounds to grams) |  |  |
| Know how to convert units of time (minutes, hours, days etc.)                               |  |  |
| Know how to measure and calculate the perimeter of composite rectilinear shapes             |  |  |
| Know how to calculate the area of rectangles and squares                                    |  |  |
| Know how to estimate the area of irregular shapes                                           |  |  |
| Know how to estimate volume                                                                 |  |  |
| Know how to use all four operations to solve a problem involving units of measure           |  |  |
| <b>Unit Level:</b>                                                                          |  |  |
| <b>Geometry – Angles</b>                                                                    |  |  |
| Know how to compare and estimate acute, obtuse and reflex angles                            |  |  |
| Know how to measure angles accurately using a protractor                                    |  |  |
| Know how to draw given angles                                                               |  |  |
| Know how to identify angles at a point and one whole turn                                   |  |  |
| Know how to identify angles at a point on a straight line and $\frac{1}{2}$ a turn          |  |  |
| Know how to identify other multiples of $90^\circ$                                          |  |  |
|                                                                                             |  |  |
|                                                                                             |  |  |
| <b>Geometry: Properties of Shapes</b>                                                       |  |  |
| Know how to name 3D shapes from 2D representations                                          |  |  |
| Know how to use properties of rectangles to deduce facts                                    |  |  |
| Know how to use properties of rectangles to find missing lengths and angles                 |  |  |
| Know how to distinguish between regular and irregular polygons                              |  |  |
| <b>Unit Level:</b>                                                                          |  |  |
| <b>Geometry: Position and Direction</b>                                                     |  |  |
| Know how to identify translations                                                           |  |  |
| Know how to describe translations                                                           |  |  |
| Know how to represent the position of a shape following a translation or reflection         |  |  |
| <b>Unit Level:</b>                                                                          |  |  |
| <b>Statistics</b>                                                                           |  |  |
| Know how to read and interpret information in tables                                        |  |  |
| Know how to read information presented in a line graph                                      |  |  |
| Know how to solve problems using information presented in a line graph                      |  |  |
| <b>Unit Level:</b>                                                                          |  |  |