| | Prep 1 | Prep 1 | Prep 1 | Prep 2 | Prep 2 | Prep 2 |
|---|---|---|---|---|---|---|
| **Fluency** | **Times tables 1 to 12**<br>**Factors and multiples**<br>**Number bonds 0 to 100** | | | | | |
| **Place Value** | Read and write numbers to 10000 in numerals and words<br><br>Partition and recognise the value of each digit in 4 digit numbers up to 10000.<br><br>Order 4 digit numbers. | Compare and order numbers up to 100 000. | Begin to understand the place value of decimals to one decimal place.<br><br>Compare numbers with the same decimal places up to 2 decimal places. | Multiply and divide whole numbers by 10, 100 and 1000 inc where the answer is a decimal. | Compare and order numbers to 1 000 000. | |
| **4 operations** | Add and subtract numbers with up to 2 digits. | Add and subtract numbers with up to 3 digits. | Add and subtract numbers with up to 4 digits. | Add decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimals places. | Add and subtract decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimals places. | Add and subtract whole numbers with more than 4 digits.<br><br>Multiply 2 digit numbers by 2 digit numbers.<br><br>Short division with no remainders. |
| **Negative Numbers** | | | Count backwards through zero to include negative numbers. | Count forwards and backwards with positive and negative whole numbers through zero. | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Interpret negative numbers in context. | | |
| **FDP** | Add and subtract several fractions with the same denominator (answers less than 1).<br><br>Recognise and show, using diagrams, families of common equivalent fractions (using factors and multiples to help me). | Add and subtract two fractions with the same denominator, even if the answer is more than 1 | Recognise and write decimal equivalents of any number of tenths or hundredths up to one whole.<br><br>Recognise and write the decimal equivalents to 1/4; 1/2; 3/4.<br><br>Count forwards in simple fractions. | Count in thousandths. (eg – 5.113, 5.114, 5.115….)<br><br>Recognise and write decimal equivalents of any number of tenths or hundredths where the number could be greater than one.<br><br>Add tenths and one-digit whole numbers and tenths.<br><br>Compare unit fractions eg - know that 1/5 is smaller than 1/2<br><br>Identify, name and write equivalent fractions of a given fraction, represented visually. | Count backwards in simple fractions.<br><br>Read and write decimal numbers as fractions (e.g. 0.71 = 71/100) up to thousandths. | Understand that fractions, decimals and percentage are all different ways of expressing proportions.<br><br>Represent the per cent symbol (%) & understand that per cent relates to 'number of parts per hundred' & write percentages as a fraction with denominator hundred & as a decimal fraction. |
| **Rounding** | Round up to a 4 digit number to the nearest 10 | Round up to a five digit number to the nearest 10 or 100 | Round any number up to 100 000 to the nearest 10, 100 or 1000<br><br>Round a decimal to the nearest whole number. | | Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Perimeter and area** | Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres. | Find the area of rectilinear shapes by counting squares | | Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. | Estimate the area of irregular shapes. | Calculate and compare the area of squares and rectangles and related composite shapes |
| **Angles** | Know angles are measured in degrees. | Identify acute, obtuse and reflex angles. | Compare and order angles up to 180˚ by size.<br><br>Measure angles using a protractor in degrees. | Estimate acute and obtuse and reflex angles.<br><br>Draw given angles and measure them in degrees (°). | Identify;<br>Angles at a point and one whole turn (total 360°).<br>Angles at a point on a straight line and ½ turn (total 180°). | Know that angles in a triangle add up to 180˚ |
| **Simple properties in a shape** | Compare and classify geometric shapes based on their number of sides and number of angles<br>Include:<br>Square<br>Rectangle<br>Triangle<br>Circle<br>Pentagon<br>Hexagon<br>Octagon | Identify and know the quadrilaterals; parallelogram, rhombus and trapezium | Identify lines of symmetry in 2D shapes presented in different orientations.<br><br>Identify and know isosceles, equilateral and scalene triangles. | Use the properties of rectangle to deduce related facts and find missing lengths. | Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. | Identify 3-D shapes, including cubes & other cuboids, from 2-D representations<br>Include:<br>Cube<br>Cuboid<br>Cylinder<br>Cone<br>Sphere<br>Square based pyramid<br>Tetrahedron |