## Medium-term planning Spring 1

١	W	Topic	Curriculum objective
	1	Negative numbers, and solving problems involving numbers	<ul> <li>To read, write, order and compare numbers at least to 1,000,000 and determine the value of each digit.</li> <li>To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> <li>To interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero.</li> <li>To round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.</li> <li>To solve number problems and practical problems that involve all of the above.</li> </ul>
-	2	Addition and subtraction of large numbers and money	<ul> <li>To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction).</li> <li>To add and subtract numbers mentally with increasingly large numbers.</li> <li>To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> <li>To solve problems involving numbers up to three decimal places.</li> </ul>
	3	Long multiplication, square numbers and cube numbers	<ul> <li>To multiply and divide numbers mentally drawing upon known facts.</li> <li>To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> <li>To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> <li>To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers.</li> <li>To recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).</li> <li>To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</li> </ul>
	4	Adding and subtracting fractions	<ul> <li>To recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements &gt; 1 as a mixed number: <sup>2</sup>/<sub>5</sub> + <sup>4</sup>/<sub>5</sub> = <sup>6</sup>/<sub>5</sub> = <sup>11</sup>/<sub>5</sub>.</li> <li>To add and subtract fractions with the same denominator and multiples of the same number.</li> </ul>
	5	Reflections and translations	To identify, describe and represent the position of a shape following a reflection or translation using the appropriate language, and know that the shape has not changed.
	6	Mass	<ul> <li>To convert between different units of measure (kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre).</li> <li>To understand and use basic equivalences between metric units and common imperial units such as inches, pounds and pints.</li> <li>To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.</li> </ul>
Assess and review		ss and review	To assess the half-term's work.