

**Grindon Infant School Year 2 Mathematics Medium Term Planning 2024-2025 – AUTUMN 2**



**Geometry – Shape**

Pupils will be able to:

- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects.

**Number – Addition and Subtraction**

Pupils will be able to:

- solve problems with addition and subtraction:
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods
- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- add and subtract numbers using concrete objects, pictorial representations, and mentally

Week 1 04.11.24	Week 2 11.11.24	Week 3 18.11.24	Week 4 25.11.24	Week 5 2.12.24	Week 6 9.12.24	Week 7 16.12.24	
<p><b>Y1 Pre-Learning</b> <b>Challenge Geometry</b></p> <ul style="list-style-type: none"> <li>• Recognise 2-D and 3-D shapes</li> <li>• Count sides on 2-D shapes</li> <li>• Count vertices on 2-D shapes</li> </ul>	<p>Lines of symmetry</p> <ul style="list-style-type: none"> <li>• Use lines of symmetry to complete shapes</li> <li>• Sort 2-D shapes</li> <li>• Count faces on 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Count edges on 3-D shapes</li> <li>• Count vertices on 3D shapes</li> <li>• Sort 3-D shapes</li> <li>• Make patterns with 2-D 3-D shapes</li> </ul> <p><b>Y2 Post Learning</b> <b>Challenge Geometry</b></p>	<p><b>Y1 Pre-Learning</b> <b>Challenge-Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>• Bonds to 10</li> <li>• Fact families- bonds to 20</li> <li>• Related facts</li> <li>• Bonds to 100</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract 1s</li> <li>• Add by making 10</li> </ul>	<ul style="list-style-type: none"> <li>• Add three 1 digit numbers</li> <li>• Add to next 10.</li> </ul>	<ul style="list-style-type: none"> <li>• Add across a 10</li> <li>• Subtract across a 10</li> </ul>	
<p><b>Discrete Problem Solving</b> Find possibilities <b>Reasoning</b> Explain with reasons and beginning to use given sentence stems and connectives to expand. Listen to others' explanations, make sense of them and compare and evaluate.</p>	<p><b>Discrete Problem Solving</b> Find possibilities <b>Reasoning</b> Explain with reasons and beginning to use given sentence stems and connectives to expand. Listen to others' explanations, make sense of them and compare and evaluate.</p>	<p><b>Outdoor Fun Activity</b></p>	<p><b>Discrete Problem Solving</b> <b>Discrete Problem Solving</b> Find possibilities <b>Reasoning</b> Explain with reasons and beginning to use given sentence stems and connectives to expand. Listen to others' explanations, make sense of them and compare and evaluate.</p>	<p><b>Discrete Problem Solving</b> Pattern spot and predict what will come next in a pattern/sequence (numbers, shapes, spatial). <b>Reasoning</b> Investigate 'what if?' questions.</p>	<p><b>Discrete Problem Solving</b> Pattern spot and predict what will come next in a pattern/sequence (numbers, shapes, spatial). <b>Reasoning</b> Investigate 'what if?' questions.</p>	<p><b>Board Games</b></p>	

<p><b>Mastering Numbers Week 1:</b></p> <ul style="list-style-type: none"> <li>recap the composition of 6, 7, 8 and 9 as '5 and a bit'</li> <li>identify the missing part of 6, 7, 8 and 9 if 5 is a part.</li> <li>compose 6, 7, 8 and 9 as '5 and a bit'</li> <li>compare different representations of the numbers 6-9.</li> <li>conceptually subitise 6, 7, 8 and 9</li> <li>solve missing addend questions where 5 is a known addend.</li> <li>practise (if necessary) making the numbers 6, 7, 8 and 9 with 5 as a part apply the composition of 6-9 to missing addend/sum questions.</li> </ul>	<p><b>Mastering Numbers Week 2:</b></p> <ul style="list-style-type: none"> <li>recap the language of comparison using 'more than' and 'fewer than'</li> <li>compare numbers and use the language of 'more than' and 'fewer than'.</li> <li>compare numbers within 10</li> <li>compare numbers and use the language of 'more than', 'fewer than'</li> <li>recap the language of comparison using 'more than', 'fewer than' and 'equal to'</li> <li>compare numbers within 10 and use the language of 'greater than' and 'less than'</li> <li>read expressions using the inequality symbols (&lt; &gt;).</li> <li>identify whether inequalities are true or false with reference to a number line interpret and represent</li> </ul>	<p><b>Mastering Numbers Week 3:</b></p> <ul style="list-style-type: none"> <li>recap that doubles are composed by combining 2 equal groups and are even numbers</li> <li>make doubles arrangements on a 10-frame.</li> <li>recap that even numbers can be made with doubles</li> <li>practise recalling doubles within 10</li> <li>write addition equations for doubles.</li> <li>recap the 'shape' of odd and even numbers</li> <li>sort odd and even numbers within 10 identify that even numbers CAN be composed of 2 odd parts.</li> </ul>	<p><b>Mastering Numbers Week 4:</b></p> <ul style="list-style-type: none"> <li>recap how 6 can be arranged in a 2-by-3 pattern</li> <li>recap the position of 6 on a 0 to 10 number line</li> <li>experience different arrangements of 6 and identify arrangements</li> <li>recap bonds of 6 shown in a 2-by-3 array</li> <li>identify the missing part of 6 in a part-part-whole diagram.</li> <li>make 6 on 2 rows of the rekenrek and reason about ways to make 6</li> <li>complete missing number equations for 6.</li> <li>identify missing parts of 6 and make 6 on a rekenrek</li> <li>identify missing symbols in equations and inequalities.</li> </ul>	<p><b>Mastering Numbers Week 5:</b></p> <ul style="list-style-type: none"> <li>recap the position of 8 in the linear number system</li> <li>work systematically to find all the ways in which 8 can be composed</li> <li>identify that 8 can be composed of 2 odd parts or 2 even parts because it is an even number.</li> <li>recap that 8 can be composed of 2 odd parts or 2 even parts because it is an even number</li> <li>sort expressions for 8 according to odd and even addends.</li> <li>recap that 8 can be composed of double 4 or 5 and 3</li> <li>identify 'how many more to make 8'.</li> <li>reason about bonds of 8 complete missing number equations in which 8 is the total.</li> </ul>	<p><b>Mastering Numbers Week 6:</b></p> <ul style="list-style-type: none"> <li>identify bonds of 10 on a 10-frame</li> <li>record expressions for 10, identifying odd and even pairs of addends.</li> <li>recap bonds of 10</li> <li>identify whether bonds of 10 are composed of odd or even numbers</li> <li>complete part-part-whole diagrams in which the whole is 10.</li> <li>identify bonds of 10 on their fingers</li> <li>reason about bonds of 10 using a rekenrek.</li> <li>reason about bonds of 10</li> <li>complete related addition and subtraction equations.</li> </ul>	<p>Consolidation</p>	
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	inequalities such as $7 < 5 + 1$ on the rekenrek.						
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