

## Stone Hill School – Maths - Long Term Planner – 2017/18

**Please note: When planning work for pupils, we take pride in ensuring that our learning objectives match the needs of each child. Some pupils may be set work that is above or below this outline in order to personalise their learning (see teaching and learning policy).**

Year 8		
Autumn	Spring	Summer
<p><b>Weeks 1 -3: Number and Place Value</b></p> <p>Pupils will work towards consolidating their understanding of numbers to 100 and extending this to numbers up to 1000.</p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>Counting forwards and backwards in steps of 2, 3, 5 and 10 from any number</li> <li>Recognising the value of digits in 2 digit and 3 digit numbers.</li> <li>Comparing and ordering numbers, using &lt;, &gt; and = correctly.</li> <li>Reading and writing numbers to 100 in both words and numerals.</li> </ul>	<p><b>Weeks 1 -3: Fractions</b></p> <p>Pupils will secure their understanding of halves and quarters in a range of practical contexts.</p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>Halving quantities.</li> <li>Halving and quartering shapes and objects</li> <li>Recognising a quarter as half of a half.</li> </ul>	<p><b>Weeks 1 – 2: Measurement (mass, length and capacity)</b></p> <p>Pupils will solve practical problems involving measuring. They will begin to measure more accurately, recording their answers.</p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>Compare and describe heights, lengths, weights and volumes using appropriate vocabulary.</li> <li>Solve a range of real-life problems involving the above.</li> <li>Begin to record their measurements independently.</li> </ul>

<p><b>Weeks 4-6: Addition and Subtraction</b></p> <p><b>Pupils will apply partitioning skills to solve a range of addition and subtraction problems.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Using mental methods and written jottings appropriately to solve problems.</li> <li>• Recalling number bonds to 20 and related facts to 100.</li> <li>• Using concrete objects, mental strategies and pictorial methods to add and subtract 2 digit numbers.</li> <li>• To understand that addition can be done in any order but subtraction cannot.</li> <li>• To recognise and use inversing to check answers and solve missing number problems.</li> </ul>	<p><b>Weeks 4-6: Measures (Time)</b></p> <p><b>Pupils will learn to tell the time to the half and quarter hours. They will also begin to measure time and sequence events.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Measure and begin to record time in seconds, minutes and hours.</li> <li>• Tell time to the half hour</li> <li>• Tell time to the quarter hour.</li> <li>• Name the days of the week and months of the year.</li> </ul>	<p><b>Weeks 3-4: Statistics</b></p> <p><b>Pupils will construct simple tables and graphs, interpreting their meaning. Pupils consolidate their understanding of addition and subtraction as part of this unit.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Construct pictograms and tally charts.</li> <li>• Interpret meaning from simple graphs and tables.</li> <li>• Answer simple questions using addition and subtraction.</li> </ul>
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<p><b>Weeks 7-9 Multiplication and Division</b></p> <p><b>Pupils will build their understanding of multiplication and division through practical contexts.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Solve problems involving multiplication and division using arrays, pictorial representations and concrete objects.</li> <li>• Begin to calculate using mental multiplication and division methods.</li> <li>• Recall facts from the 2, 5 and 10 times tables and recognise odd and even numbers.</li> <li>• Recognise and use multiplication and division signs.</li> </ul>	<p><b>Weeks 7-8: Measures (Money)</b></p> <p><b>Pupils will learn to use money in practical situations to solve problems with a real life context.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Recognising coins and notes of different denominations.</li> <li>• Begin to make different totals of money using coins.</li> <li>• Some pupils may progress to finding change.</li> </ul>	<p><b>Weeks 5-9: Calculation Revisit</b></p> <p><b>Pupils will review their work on calculation and solve problems in a range of real life situations (including money and measures).</b></p> <p><b>Objectives include</b></p> <ul style="list-style-type: none"> <li>• Representing and using number bonds to 10 and 20.</li> <li>• Adding and subtracting a single digit number.</li> <li>• Solving missing number problems, such as <math>9 - ? = 2</math></li> <li>• Representing multiplication and corresponding division facts in arrays, pictorial representations and using concrete objects</li> <li>• Learning the 2, 5 and 10 times tables.</li> </ul>
<p><b>Weeks 10-13: Geometry: Properties of Shapes</b></p> <p><b>Pupils will conclude the term with a unit of work on 2D and 3D shapes.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Naming common 2D and 3D shapes</li> <li>• Describing the properties of 2D shapes, including number of sides and vertical lines of symmetry.</li> <li>• Describe the properties of 3D shapes, including number of edges, vertices and faces.</li> <li>• Sort and compare shapes by their properties.</li> </ul>	<p><b>Weeks 9 – 10: Geometry (Position and Direction)</b></p> <p><b>Pupils will apply their understanding of quarters to describe turns. They will use appropriate vocabulary for describing position.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Describe position and direction.</li> </ul> <p>Describe turns as whole, half, quarter or three quarter.</p>	<p><b>Weeks 10-12: Review of shape and fractions.</b></p> <p><b>Pupils will revisit tricky concepts such as finding fractions of shapes and quantities.</b></p> <p><b>Objectives include:</b></p> <ul style="list-style-type: none"> <li>• Halving and quartering shapes, quantities and objects.</li> <li>• Using quarter hours and quarter turns.</li> <li>• Writing simple fractions.</li> </ul>
<p><b>Moderation: Number and Place Value.</b></p>	<p><b>Moderation: Measurement.</b></p>	<p><b>Moderation: Calculation in a practical context.</b></p>