

Driver: Science

Main learning Challenge: Who is afraid of the dark?

	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b> Autumn Watch Week
<b>Maths Learning Challenge</b>	Place value	Addition	Subtraction	Multiplication	Division	Position and Direction	2D and 3D shape
<b>Basic Skills Focus</b>	<p>Yr 1 Counting in 2s Doubles 1 more, 1 less</p> <p>Yr 2 Counting in 2s Doubles 1 more, 1 less Odds and even &lt; &gt; =</p>	<p>Yr 1 Number bonds to 10 Read and write numbers to 10</p> <p>Yr 2 Number bonds to 20 Odds and even Read and write numbers to 20</p>	<p>Yr1 Counting in 2s Counting to 100 and across 100 from a given number.</p> <p>Yr2 Counting in 2s Read and write numbers to 100</p>	<p>Yr 1 Read and write numbers to 1-10</p> <p>Yr 2 Multiplication and division facts for 2x table. Odd and even numbers</p>	<p>Yr 1 Number bonds to 10 and related subtraction.</p> <p>Yr 2 Counting in 5s Odd and even numbers</p>	<p>Yr 1 Read and write numbers to 1-10 Doubles</p> <p>Yr 2 Counting in 5s Odd and even numbers</p>	<p>Yr 1 Counting to 100 and across 100 from a given number.</p> <p>Yr 2 Counting in 2s Counting in 5s Read and write numbers to 100</p>
<b>Number</b>	<p><b>Place value</b> <b>YR 1</b> Represent numbers using objects and pictures. One more/one less to 10 Read and write numbers to 10.</p> <p><b>YR 2</b> Recognise the place value of each digit in a two digit number. Read and write numbers to at least 100 Identify, represent and</p>	<p><b>Addition</b> <b>YR 1</b> Add 1 digit numbers to 10  Read, write and interpret mathematical statements involving + = within 10.  Solve addition problems using concrete objects.</p> <p><b>YR 2</b> Add concrete objects and pictorial representations 2digit numbers and ones.  Solve problems using addition and subtraction</p>	<p><b>Subtraction</b> <b>YR1</b> Subtract 1 digit numbers to 10  Read, write and interpret mathematical statements involving - = within 10.  Solve subtraction problems with concrete objects.</p> <p><b>YR2</b> Subtract with concrete objects and pictorial representations 2digit numbers and ones.</p>	<p><b>YR1</b> Counting in 2s.  Doubles 1 - 10.  Recognise, find and name a half as one of two equal parts of an object, shape or quantity.  Solve one-step problems involving multiplication by calculating the answer using concrete objects (linked to counting in 2s)</p> <p><b>YR2</b> Recall and use</p>	<p><b>YR1</b> Counting in 2s.  Recognise, find and name a half as one of two equal parts of an object, shape or quantity.  Solve one-step problems involving multiplication by calculating the answer using concrete objects (linked to counting in 2s)</p>		

	<p>estimate numbers using different representations, including the number line. Recognise odd and even numbers.</p> <p>Use place value and number facts to solve problems.</p> <p>Compare and order numbers from 0 up to 100; use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs from 0,</p>	<p>using concrete objects.</p>	<p>Solve problems using subtraction using concrete objects.</p>	<p>multiplication and division facts for the <math>\times 2</math> multiplication tables, including recognising odd and even numbers</p> <p>Solve problems involving multiplications using materials and arrays.</p> <p>Calculate mathematical statements for multiplication within the 2 times tables and write them using the multiplication (<math>\times</math>), and equals (<math>=</math>) signs.</p>	<p><b>YR2</b></p> <p>Recall and use multiplication and division facts for the <math>\times 2</math> multiplication tables, including recognising odd and even numbers</p> <p>Solve problems involving multiplications using materials and arrays.</p> <p>Calculate mathematical statements for division within the 2 times tables and write them using the division (<math>\div</math>) and equals (<math>=</math>) signs</p>		
<p><b>Calculation</b></p>		<p>Yr 1: Addition and subtracting tortoise weights -1 digit numbers to 10</p> <p>Yr 2: Add and subtract concrete objects and pictorial representations</p>	<p>Yr 1: Solve one step problems that involve addition and subtraction, using concrete objects.</p> <p>Yr 2: Add and subtract mentally 2 digits and ones. Adding 3 1 digit numbers.</p>	<p>Yr 1: Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects (linked to counting in 2s)</p> <p>Yr 2: Calculate mathematical statements for multiplication and division within the 2 times tables and write them using the</p>	<p>Yr 1: Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects (linked to counting in 2s)</p> <p>Yr 2: Calculate mathematical statements for</p>	<p>Outdoor area calculation activities (adding/subtracting pine cones, pebbles etc.)</p>	<p>Outdoor area calculation activities (adding/subtracting pine cones, pebbles etc.)</p>

				<p>multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>) signs</p>	<p>multiplication and division within the 2 times tables and write them using the multiplication (<math>\times</math>), division</p>		
<p><b>Shape and Measure</b></p>		<p>(Outdoor area – chalk scale) Measure how far your car can go</p>	<p>(Outdoor area Coathanger weighing scales) Measure out food for owls (bird seed)</p>	<p>(Outdoor area – Hula Hoop clock, stick hands )  Can you make the clock show the time of...</p>	<p>(Outdoor area)  Identify and name the 2d and 3d shapes in the outdoor area</p>	<p>YR1 Describe position, direction and movement, including whole, half, quarter and three-quarter turns.</p> <p>YR2 Order and arrange combinations of mathematical objects in patterns and sequences</p> <p>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).</p>	<p>YR1 Recognise and name common 2-D shapes including: rectangles (including squares), circles and triangles Recognise and name common 3-D shapes including: cuboids (including cubes), pyramids and spheres.</p> <p>YR2 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.</p>

<p><b>Problem solving: Generalising and Reasoning</b></p>	<p>Yr 1 Spot the mistake. What is the wrong with this sequence of numbers? 5,6,8,9</p> <p>True or False? I start at 2 and count in twos. I will say 9</p> <p>Yr 2 Spot the mistake. What's wrong with this sequence of numbers? 45,40,35,25</p> <p>What comes next? 41+5=46 46+5=51 51+5=56</p>	<p>Yr 1 What do you notice? 11=1=10 11-10=1 Can you make up some other number sentences like this involving 3 different numbers?</p> <p>Missing numbers 17 ? 3 ? 20 18 ? 20 ? 2</p> <p>Yr 2 Hard and Easy questions. Which are hard, which are easy, explain why? 23=10 93+10 54+9 54+1 True or false Are these number sentences true or false?</p>	<p>Yr 1 Fact families Which four sentences link these 4 numbers 12,15 and 3?</p> <p>Convince me In my head I have 2 odd numbers with a difference of 2. What could they be?</p> <p>Yr 2 Continue the pattern 90=100-10 80=100-20</p> <p>Can you make similar patterns starting with the numbers 74, 26 and 100?</p> <p>Missing numbers 91+ ? = 100 100- ?=89</p>	<p>Yr 1 If 1 owl has 2 mice, how many mice will 3 have?</p> <p>Here are 10 baby owls. If 2 baby owls can be carried by 1 adult, how many adult owls do we need?</p> <p>Yr 2 Prove it Which 4 number sentences link these numbers? 2, 10, 20. Prove it</p>	<p>Yr 1 What do you notice?</p> <p>Choose a number of counters, place them on 2 plates so there is the same on each half, when can you do this and when can't you? What do you notice? True or False Sharing 8 apples between 4 children means that each child has 1 apple</p> <p>Yr 2 What do you notice? <math>\frac{1}{2}</math> of 4 =2 <math>\frac{1}{2}</math> pf 8=4 <math>\frac{1}{2}</math> of 12= 6 Continue the pattern, what do you notice?</p> <p>True or false? Half of 20cm=5cm Half of 12= 7cm</p>	<p>Yr 1 What's the same. what's different?</p> <p>Find a rectangle and a triangle in this set of shapes. Tell me 1 thing that is the same, tell me 1 thing that is different.</p> <p>True or false? All 2d shapes have at least 2 sides</p> <p>Yr 2 What's the same, what's different? Pick up these 3d shapes, cylinder, cuboid, cube. Do they all have straight edges and flat faces. What's the same, what's different?</p> <p>Can you find shapes that go with these labels? Have straight sides and all sides are the same length</p>	<p>Yr 1 Working backwards The shape below was turned <math>\frac{3}{4}</math> of a full turn and looks like this. What did it look like when it started?</p>  <p>Yr 2 Working backwards If I face forward and turn <math>\frac{3}{4}</math> turns clockwise then a <math>\frac{1}{4}</math> turn clockwise describe my finishing position .</p>
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Maths Medium Term plan – Autumn 1

Year 1/2

<b>Key Vocabulary</b>	Units Tens	Subtraction: less, how many less, fewer than, Addition: how many altogether? More, more than, Add, plus, make, sum, total,	Multiplication: Multiple of, times, multiply, multiply by			Turn, one/two/three quarter turns, half turn, left/right	2D/3D, faces, sides, edges, corners.
<b>Wider curriculum opportunities/links</b>	The owl who was afraid of the dark		The owl who was afraid of the dark		The owl who was afraid of the dark		Autumn watch week
<b>Pre teaching</b>	Addition and subtraction	Addition and subtraction problem solving	Doubling and halving/Multiplication	Fractions	2D/3D Shapes	Position movement and direction	Autumn 2 topics