

Example Scheme of Work – MKSHK Year 2 Maths										
	Teacher		Pre-Prep	2	Year	2	No of pupils		Subject	Maths
	Term								No. of lessons	5
About this Unit	<b>Strands:</b> Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)									
Summary	<b>Strands:</b> Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP) <b>Week summary:</b> Revise doubles and corresponding halves to 15; find half of odd and even numbers to 30; Revise and recognise 1/2s, 1/4s, 1/3s and 2/3s of shapes; place 1/2s on a number line; count in 1/2s and 1/4s; understand and write mixed numbers									

	Main Focus	Starter	Teaching Summary	Task Descriptions	Outcomes
1	<b>Lesson</b> Revise doubles to double 15 and corresponding halves	<b>ST 2.16.1</b> Use fingers to model doubles to double 5. Call out a number, chn show the double on their fingers. Rpt.	<ul style="list-style-type: none"> <li>Show a coat hanger with six pegs on each side. Agree how many there are and write <math>6 + 6 = 12</math> and <i>double 6 is 12</i>. Rpt with double 7.</li> <li>Find half of 14, reminding chn that it is the opposite of doubling. Rpt with doubling 8, 9 and 10.</li> <li>Chn make two towers of either 11, 12, 13, 14 or 15 with ten cubes in one colour and the rest in another. Use to model partitioning and doubling.</li> <li>Chn choose a number, and explain how it is partitioned, e.g. <i>Fourteen is ten and four</i>. They double and say the total.</li> <li>Call out doubling and halving questions that chn can answer using their fingers.</li> </ul>	<p><b>Core: (T) Gui 2.16.1</b> Chn throw bean bags onto a numbered dartboard, doubling the number they land on. Rpt with larger numbers and halving.</p> <p><b>Core:</b> <a href="#">Y2 WB2 p35</a></p> <p><b>Support: IP 2.16.1a</b> Chn find all the double dominoes in a set and write the corresponding doubles and halves.</p> <p><b>Extend: IP 2.16.1b</b> Chn use Resource sheet 595 to play a halving game for 2-4 players.</p>	<p>Children can:</p> <ul style="list-style-type: none"> <li>double numbers to 15 and find corresponding halves.</li> </ul>
<p><b>Objectives: MMD.19</b> Double numbers to 12 and find related halves; <b>MMD.21</b> Double numbers to 20, including partitioning teen numbers, and find related halves</p> <p><b>Key Vocabulary:</b> double; halve; partition; tens; units; altogether; total</p>					

**Physical Resources:** 1–6 dice; 10p and 1p coins; 20 pegs; A1 paper; bean bag; coat hanger; counters; dominoes (black and white); interlocking cubes; Y2 Workbook 2;  
**Photocopiables:** [Resource sheet 595](#); **Digital Resources:** [Lesson: Year 2](#)

2	<p><b>Lesson</b> Find half of even numbers to 30, and revise finding half of an odd number</p>	<p><b>ST 2.16.2</b> Point randomly to a number 1–10 and say its double. Chn show thumbs up if you are right, and down if you are wrong. Rpt.</p>	<ul style="list-style-type: none"> <li>• Make a stick of 16 cubes using one colour to make 10, and another to make the remaining 6. Explain and model how to halve by partitioning. Write <i>Half of 16 is 8</i>. In pairs, chn halve 18.</li> <li>• Rpt for 15 and agree that 5 cannot be halved. Demonstrate how they would be able to share 15 sausages by cutting one in half. Write half of 15 = 7 and a half. Reference 5 being an odd number.</li> <li>• Chn make 24 using place-value cards (Resource sheets 22 and 24a). As a class, partition and find out half of each number. Discuss the answer and write: <i>half of 24 = 12</i>.</li> <li>• Show <a href="#">Screen 2.16.2</a> and explain that everything is half price. Chn make the amounts using 10p and 1p coins and find the sale price.</li> </ul>	<p><b>Core: (T) PSR.C 2.16.2</b> Chn investigate which numbers 10–30 can be halved to give whole numbers. Use cubes and place-value cards (Resource sheets 2 and 24a). Encourage chn to spot patterns.</p> <p><b>Support: (T) PSR.S 2.16.2</b> Chn investigate which numbers 10–30 can be halved to give whole numbers. Use cubes and place-value cards (Resource sheets 2 and 24a). Encourage chn to spot patterns.</p> <p><b>Extend: (T) PSR.E 2.16.2</b> Chn investigate which numbers 10–30 can be halved. Use cubes and place-value cards (Resource sheets 2 and 24a). Encourage chn to spot patterns. Extend the investigation to bigger numbers.</p>	<p>Children can:</p> <ul style="list-style-type: none"> <li>• halve even numbers to 30</li> <li>• recognise odd and even numbers to 30.</li> </ul>
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**Objectives:** **MMD.36** Double and halve numbers to 100, including partitioning 2-digit numbers; **FRP.20** Find 1/2 of odd numbers

**Key Vocabulary:** double; halve; partition; tens; units; altogether; total

**Physical Resources:** 10p and 1p coins; flipchart; interlocking cubes; label cards; two hoops; **Photocopiables:** [Resource Sheet 596](#); [RS 2 Number cards 0-20](#); [RS 108 Number cards 21-40](#); **Digital Resources:** [Lesson: Year 2](#); [Number square tool 2.16.2](#); [Screen 2.16.2](#)

3	<p><b>Lesson</b> Revise halves and quarters of shapes, and recognise one-third and two-thirds of shapes</p>	<p><b>ST 2.16.3</b> Chn choose a number of fingers to show. Select a card from 2-20 (Resource sheet 2). If any child has half the selected number, they win a counter.</p>	<ul style="list-style-type: none"> <li>• Show chn a piece of A4 paper and fold in half. Write 1/2 on each part. Rpt folding a sheet into quarters. Ask chn to fold a square into quarters. Show a square folded diagonally in half. Chn experiment with different ways of folding a square into quarters.</li> <li>• Model folding paper unequally and discuss how it isn't folded in half. Rpt folding into 4 unequal parts.</li> <li>• Chn say the fractions coloured red on the flag designs on <a href="#">Screen 2.16.3</a>. Look at the</li> </ul>	<p><b>Core: IP 2.16.3</b> Chn colour flags on Resource sheet 597 in different ways and label the fraction in each colour.</p> <p><b>Support:</b> <a href="#">Y2 WB2 p36</a></p> <p><b>Extend: (T) Gui 2.16.3</b> Chn choose number cards 10-20 (Resource sheet 2) and investigate which they can half and quarter into whole numbers. Rpt for thirds.</p>	<p>Children can:</p> <ul style="list-style-type: none"> <li>• recognise, read and write 1/2, 1/4, 3/4, 1/3 and 2/3.</li> </ul>
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			next slide and compare flags and the fractions coloured red and yellow.		
<p><b>Objectives:</b> FRP.12 Understand that a fraction is an equal part of a whole; 1/2s and 1/4s of shapes; FRP.23 Understand the concept of a unit fraction; 1/2, 1/3, 1/4, 1/8</p> <p><b>Key Vocabulary:</b> half; quarter; equal; unequal; three-quarters; third; two-thirds; altogether</p> <p><b>Physical Resources:</b> bread or modelling dough sandwiches; coloured pencils; counters; four plates; four teddies; interlocking cubes; paper squares; pieces of A4 paper; squared paper; Y2 Workbook 2; <b>Photocopiables:</b> <a href="#">RS 2 Number cards 0-20</a>; <a href="#">RS 597 Fraction flags</a>; <b>Digital Resources:</b> <a href="#">FE 2.16.3</a>; <a href="#">Lesson: Year 2</a>; <a href="#">Screen 2.16.3</a></p>					
4	<p><b>Lesson</b></p> <p>Place halves on a number line, and begin to understand mixed numbers</p>	<p><b>ST 2.16.4</b>Chn count along the washing line (Resource sheets 77–96) whispering the odd numbers. Rpt, whispering the even numbers.</p>	<ul style="list-style-type: none"> <li>Discuss sharing 3 sandwiches between two chn and draw out that they will have 1 1/2 each. Explain that this is a mixed number — a whole number and a fraction.</li> <li>In pairs, chn fold strips of 5 or 7 sandwiches (Resource sheet 599) in half to find out how many each would get. Take feedback and write answer.</li> <li>Using <a href="#">Screen 2.16.4</a>, discuss how many leaves Katrina ate each day. Discuss where to put this number on the number line. Chn mark each number of leaves on the number line.</li> <li><i>On which day did Katrina eat most leaves? On which day did she eat fewest?</i></li> </ul>	<p><b>Core:</b> <a href="#">Y2 WB2 p37</a></p> <p><b>Support: (T) Gui 2.16.4</b> Work together to share 5 biscuits, 3 rice cakes and 7 bread sticks between two, labelling fractions each time. Chn fold strips of objects (Resource sheet 600) in half. Order and label.</p> <p><b>Extend: IP 2.16.4</b> Chn order groups of sandwiches from (Resource sheet 601), write the mixed number and mark on a number line.</p>	<p>Children can:</p> <ul style="list-style-type: none"> <li>understand mixed numbers and place halves on a number line.</li> </ul>
<p><b>Objectives:</b> FRP.27 Place 1/2s and 1/4s on a number line</p> <p><b>Key Vocabulary:</b> share; half; mixed number; whole number; fraction; most; fewest</p> <p><b>Physical Resources:</b> 3, 5 and 7 items of food that can be halved; 20 pegs; flipchart; plates; sticky notes; three sandwiches; washing line; Y2 Workbook 2;</p> <p><b>Photocopiables:</b> <a href="#">Resource Sheet 599</a>; <a href="#">Resource Sheet 601</a>; <b>Digital Resources:</b> <a href="#">Lesson: Year 2</a>; <a href="#">Screen 2.16.4</a></p>					
5	<p><b>Lesson</b></p> <p>Count in halves and quarters and write mixed numbers</p>	<p><b>ST 2.16.5</b>Play 'Team counting' in 2s to 30 and back again.</p>	<ul style="list-style-type: none"> <li>Using <a href="#">Screen 2.16.5</a> discuss how many sandwiches have been eaten if 3 halves have been eaten and so on. Count the sandwiches in halves.</li> <li>Rpt for quarters on the next slide, drawing out that 2/4 is 1/2. Count in quarters up to 4.</li> <li>Ask a child to mark 1/2 on the 0-5 number line (<a href="#">Number line tool 2.16.5</a>). 1 1/2 and so on. Count in halves. Rpt, adding the quarters.</li> </ul>	<p><b>Core: (T) Gui 2.16.5</b> Chn match fractions cards (numbers and pictures on Resource sheets 602/603) then order them. Count along in steps of 1/4 and continue after they've finished counting the cards.</p> <p><b>Core:</b> <a href="#">Y2 WB2 p39</a></p> <p><b>Support:</b> <a href="#">Y2 WB2 p38</a></p> <p><b>Extend: IP 2.16.5</b> Chn match fractions cards (numbers and pictures on Resource sheets 602/603) then order them. Count along in steps of 1/4 and</p>	<p>Children can:</p> <ul style="list-style-type: none"> <li>count in steps of 1/2 and 1/4 (without necessarily using the equivalence between halves and quarters).</li> </ul>

				continue after they've finished counting the cards.	
<p><b>Objectives:</b> FRP.19 Count in halves beyond 1 to 10; FRP.21 Count in 1/4s beyond 1, not saying equivalent fractions</p> <p><b>Key Vocabulary:</b> half; quarter; three-quarters; altogether; whole</p> <p><b>Physical Resources:</b> cardboard circle cut into four unequal pieces; four teddies; paper strips; Y2 Workbook 2; <b>Photocopiables:</b> <a href="#">Resource Sheet 602</a>; <a href="#">Resource Sheet 603</a>; <a href="#">Resource Sheet 604</a>; <b>Digital Resources:</b> <a href="#">Lesson: Year 2</a>; <a href="#">Number line tool 2.16.5</a>; <a href="#">Screen 2.16.5</a></p>					