


WALT: We Are Learning To  
WAP: We Are Practising

## Summer 1: Benin – An African Kingdom

Week	Unit	National Curriculum objectives Possible lesson objectives	White Rose Maths (WRM) 'small steps'	Models and images representing number Key vocabulary	Reasoning (in addition to WRM questions)	Fluency
1	<b>Number Percentages</b>	<ul style="list-style-type: none"> <li>recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</li> <li>solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> <p>WALT understand what 'per cent' means WAL the connections between percentages, fractions and decimals WALT convert between percentages, fractions and decimals</p>	<ul style="list-style-type: none"> <li>Understand percentages</li> <li>Percentages as fractions and decimals</li> <li>Equivalent F.D.P.</li> </ul>	Fraction diagram, bar model, fraction wall, number line	<p><b>Another and another</b> Write a fraction with a denominator of one hundred which has a value of more than 0.75? ... and another, ... and another, ...</p> <p><b>Ordering</b> Put these numbers in the correct order, starting with the largest. 7/10, 0.73, 7/100, 0.073 71% Explain your thinking</p> <p><b>Comparing</b> Which is more: 20% of 200 or 25% of 180? Explain your reasoning.</p> <p><b>NRICH Matching Fractions, Decimals and Percentages</b> (printed or online)</p>	Place value in decimals
2	<b>Number Decimals (2)</b>	<ul style="list-style-type: none"> <li>solve problems involving number up to three decimal places</li> <li>practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, <math>0.83 + 0.17 = 1</math>) [non-statutory]</li> </ul> <p>WALT add decimals using concrete resources and column addition</p>	<ul style="list-style-type: none"> <li>Adding decimals within 1</li> <li>Subtracting decimals within 1</li> <li>Complements to 1</li> <li>Adding decimals – crossing the whole</li> </ul>	Place value grid, place value counters, fraction diagram, column layout, part-whole model	<p><b>Odd one out</b> Which is the odd one out? <math>0.67 + 0.33</math> <math>1 - 0.33</math> <math>0.67 - 0.33</math> Explain your answer. Is there more than 1 possible answer?</p> <p><b>Making links</b> How might this calculation: <math>307 + 68</math> help with this:</p>	Rounding and comparing decimals

	<p>WALT subtract decimals by taking away</p> <p>WALT subtract decimals by finding a difference</p> <p>WALT find pairs of decimals which add to one</p> <p>WALT partition to add decimals</p>			<p>3.07 + 0.68?</p> <p>Would it help with:</p> <p>3.07 + 6.8?</p> <p>Why/why not?</p> <p><b>Working backwards</b></p> <p>I added 5 tenths, 7 hundredths and 4 thousandths to my number. I ended up with 4.333.</p> <p>What was my original number?</p>									
3	<ul style="list-style-type: none"><li>• solve problems involving number up to three decimal places</li><li>• practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, 0.83 + 0.17 = 1) [non-statutory]</li></ul> <p>WALT use place value grids and column layout to add decimals</p> <p>WALT use place value grids and column layout to subtract decimals</p> <p>WALT add decimals with a different number of decimal places</p> <p>WALT subtract decimals with a different number of decimal places</p> <p>WALT add decimals to, and subtract them from, whole numbers</p>	<ul style="list-style-type: none"><li>• Adding decimals with the same number of decimal places</li><li>• Subtracting decimals with the same number of decimal places</li><li>• Adding decimals with a different number of decimal places</li><li>• Subtracting decimals with a different number of decimal places</li><li>• Adding and subtracting wholes and decimals</li></ul>	Place value grids, place value counters, column layout, bar model	<p><b>Do, then explain</b></p> <p>Calculate 1.001 – 0.11, then explain your method.</p> <p><b>Compare calculations</b></p> <p>Which of these do you find hardest?</p> <p>2.707 + 0.09</p> <p>0.555 + 3.444</p> <p>1.098 + 9.103</p> <p>Explain why.</p> <p><b>Always, sometimes, never</b></p> <p>Adding tenths to a number would make it bigger than adding thousandths to it would.</p>	Adding and subtracting decimals								
4	<ul style="list-style-type: none"><li>• multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li><li>• solve problems involving number up to three decimal places</li></ul> <p>WALT continue and create sequences with decimals</p> <p>WALT multiply decimals by 10, 100 and 1000</p> <p>WALT divide by 10, 100 and 1000 with decimal answers</p> <p>WAP calculating with decimals (<i>not WRM</i>)</p>	<ul style="list-style-type: none"><li>• Decimal sequences</li><li>• Multiplying decimals by 10, 100 and 1000</li><li>• Dividing decimals by 10, 100 and 1000</li></ul>	Place value grid, counters, Gattegno chart	<p><b>Spot the mistake</b></p> <p>0.088, 0.089, 1.0</p> <p><b>What comes next?</b></p> <p>1.173, 1.183, 1.193</p> <p><b>Complete the pattern</b></p> <table><tr><td><math>\frac{71}{100}</math></td><td><math>\frac{??}{100}</math></td><td><math>\frac{??}{100}</math></td><td><math>\frac{??}{100}</math></td></tr><tr><td>0.71</td><td>0.81</td><td>???</td><td>???</td></tr></table> <p>Complete the table.</p> <p><b>Undoing</b></p> <p>I divide a number by 100 and the answer is 0.33 What number did I start with?</p> <p><b>Another and another</b></p>	$\frac{71}{100}$	$\frac{??}{100}$	$\frac{??}{100}$	$\frac{??}{100}$	0.71	0.81	???	???	Multiplying and dividing with decimals
$\frac{71}{100}$	$\frac{??}{100}$	$\frac{??}{100}$	$\frac{??}{100}$										
0.71	0.81	???	???										

				Write down a number with two decimal places which when multiplied by 100 gives an answer between 33 and 38. ... and another, ... and another	
5	<b>Geometry Shape (I)</b> <ul style="list-style-type: none"> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>draw given angles, and measure them in degrees (°)</li> </ul> <p>WAP recognising and comparing acute, obtuse and right angles WALT describe angles in degrees and in fractions of a whole turn WALT use a protractor WAP using a protractor accurately WALT use a protractor and ruler to draw accurately</p> <ul style="list-style-type: none"> <li>Identify angles (WRM revision)</li> <li>Compare and order angles (WRM revision)</li> <li>Measuring angles in degrees</li> <li>Measuring with a protractor (1)</li> <li>Measuring with a protractor (2)</li> <li>Drawing lines and angles accurately</li> </ul>				
			-	<b>NRICH How Safe are You?</b> <b>NRICH Six Places to Visit</b> <b>NRICH Olympic Turns</b> (homework activity?) <b>NRICH Estimating Angles</b> (online)	Number sequences and patterns
6	<ul style="list-style-type: none"> <li>identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and ½ a turn (total 180°); other multiples of 90°</li> </ul> <p>WALT reason about angles on a straight line WALT reason about angles around a point WAP drawing triangles and classifying them by their properties WAP drawing quadrilaterals and classifying them by their properties</p>	<ul style="list-style-type: none"> <li>Calculating angles on a straight line</li> <li>Calculating angles around a point</li> <li>Triangles (WRM revision)</li> <li>Quadrilaterals (WRM revision)</li> </ul>	Part-whole model, bar model	<b>Other possibilities</b> Here is one angle of an isosceles triangle. You will need to measure the angle accurately. What could the other angles of the triangle be? Are there any other possibilities?  <b>Convince me</b> What is the angle between the hands of a clock at four o'clock? At what other times is the angle between the hands the same? Convince me. <b>NRICH Making Rectangles</b>	Mental calculation with 4 operations