

WALT: We Are Learning To
WAP: We Are Practising

Spring 2: Race to the South Pole

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	Measurement Length and perimeter (2)	<ul style="list-style-type: none"> add and subtract lengths (m/cm/mm) measure the perimeter of simple 2-D shapes <p>WAP calculating with length WAL what a perimeter is WALT measure the length of a perimeter WALT calculate the length of a perimeter</p>	<ul style="list-style-type: none"> Add lengths Subtract lengths Measure perimeter Calculate perimeter 	Bar model, part-whole model	<p>Testing conditions A square has sides of a whole number of centimetres. Which of the following measurements could represent its perimeter? 8cm 18cm 24cm 25cm Do, then explain Draw a square with sides that are 4 cm long. Now draw a rectangle with 2 sides that are 4 cm long and a shorter perimeter than the square. Then one with 2 sides that are 4 cm long and a longer perimeter than the square. How is this possible? Always, sometimes, never A larger shape has a longer perimeter. Explain your answer.</p>	<p>Mental addition and subtraction practice</p> <p>Number facts: ten times table and division</p>
2	Number Fractions (1)	<p><i>This week is revision of learning in Year 2 so does not directly match Year 3 NC objectives, though relates to:</i></p> <ul style="list-style-type: none"> recognise, find and write fractions of a discrete set of objects: unit fractions with small denominators solve problems that involve [fractions] <p>WAP making equal parts of a whole WAP working with halves WAP working with quarters</p>	<ul style="list-style-type: none"> Make equal parts (WRM revision) Recognise a half (WRM revision) Find a half (WRM revision) Recognise a quarter (WRM revision) Find a quarter (WRM revision) 	Grid, cubes, bar model, ten-frame	<p>Spot the mistake When I share a cookie with my friend, I always want the bigger half. What do you notice? $\frac{1}{4}$ of 4 = 1 $\frac{1}{4}$ of 8 = 2 $\frac{1}{4}$ of 12 = 3 Continue the pattern What do you notice? True or false? Half of 20cm = 5cm</p>	<p>Length and perimeter mental calculations</p> <p>Number facts: 3 and 4 times tables and division</p>

	WAP working with thirds WAP finding unit fractions of a number	<ul style="list-style-type: none"> • Recognise a third (WRM revision) • Find a third (WRM revision) • Unit fractions (WRM revision) 		<p>One quarter of 20cm = 10cm</p> <p>Do, then explain</p> <p>Put these fractions in the correct order, starting with the smallest.</p> <p>$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$</p>	
3	<p><i>This week is revision of learning in Year 2 so does not directly match Year 3 NC objectives, though relates to:</i></p> <ul style="list-style-type: none"> • recognise, find and write fractions of a discrete set of objects: non-unit fractions with small denominators • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • recognise and show, using diagrams, equivalent fractions with small denominators • solve problems that involve [fractions] <p>WALT understand non-unit fractions WALT calculate non-unit fractions of a number WALT to recognise equivalent fractions WALT use fractions as counting numbers</p>	<ul style="list-style-type: none"> • Non-unit fractions (WRM revision) • Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ (WRM revision) • Count in fractions (WRM revision) 	Cubes, bar model, numberline	<p>True or false?</p> <p>Half of 20cm = 5cm $\frac{3}{4}$ of 12cm = 9cm</p> <p>Spot the mistake</p> <p>7, 7 $\frac{1}{2}$, 8, 9, 10 8 $\frac{1}{2}$, 8, 7, 6 $\frac{1}{2}$, ... and correct it</p> <p>What comes next?</p> <p>5 $\frac{1}{2}$, 6 $\frac{1}{2}$, 7 $\frac{1}{2}$, ..., 9 $\frac{1}{2}$, 9, 8 $\frac{1}{2}$,,</p> <p>Odd one out.</p> <p>Which is the odd one out in this trio: $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{4}$</p> <p>Why?</p> <p>What do you notice?</p> <p>Find $\frac{1}{2}$ of 8. Find $\frac{2}{4}$ of 8 What do you notice?</p>	<p>Mental multiplication and division</p> <p>Number facts: eight times table and division</p>
4	<p>Number Decimals</p>				
	<ul style="list-style-type: none"> • count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • compare and order fractions with the same denominators • solve problems that involve [fractions] <p>WALT find fractions that equal a whole WALT recognise and find tenths WALT count in tenths WALT about decimal tenths</p>	<ul style="list-style-type: none"> • Making the whole (WRM Summer term) • Tenths (Summer term) • Count in tenths (Summer term) • Tenths as decimals (Summer term) 	Part-whole model, bar model, ten-frame, counting stick, place value counters (1/10), place value grid, numberline	<p>Spot the mistake</p> <p>Six tenths, seven tenths, eight tenths, nine tenths, eleven tenths ... and correct it.</p> <p>What comes next?</p> <p>6/10, 7/10, 8/10,, 12/10, 11/10,,,</p> <p>Make a prediction</p> <p>I'm counting in decimal tenths. The first number I say is 0.1. What would the 12th number be? The 30th number? The 100th number? How do you know?</p>	<p>Simple fractions of amounts</p> <p>Number facts: bonds to 10 and 20 and matching subtraction</p>

	WAL about the place value of decimal tenths				
5	Number Fractions (2) <ul style="list-style-type: none"> recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators solve problems that involve all of the above <p>WALT count in fractions along a numberline WAP finding unit fractions of larger numbers WAP finding non-unit fractions of a number WALT find equivalent fractions WALT use a fraction wall to find equivalent fractions</p>				
	<ul style="list-style-type: none"> recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators solve problems that involve all of the above <p>WALT count in fractions along a numberline WAP finding unit fractions of larger numbers WAP finding non-unit fractions of a number WALT find equivalent fractions WALT use a fraction wall to find equivalent fractions</p>	<ul style="list-style-type: none"> Fractions on a number line (<i>WRM Summer term</i>) Fractions of a set of objects (1) (<i>Summer term</i>) Fractions of a set of objects (2) (<i>Summer term</i>) Fractions of a set of objects (3) (<i>Summer term</i>) Equivalent fractions (1) (<i>Summer term</i>) Equivalent fractions (2) (<i>Summer term</i>) Equivalent fractions (3) (<i>Summer term</i>) 	<p>Numberline, counters, bar model, place value counters, grid, Cuisenaire rods</p> <p>Introduce Fraction wall</p>	<p>Prove it Use Cuisenaire rods to show whether $\frac{3}{4}$ of 20 is more or less than $\frac{2}{3}$ of 24. Prove that your answer is correct.</p> <p>Make a prediction I'm counting in quarters. The first number I say is $\frac{1}{4}$. What would the eighth number be? The 20th number? How do you know?</p> <p>Odd one out Which is the odd one out in each of these trios? $\frac{1}{2}$ $\frac{3}{6}$ $\frac{5}{8}$ $\frac{3}{9}$ $\frac{2}{6}$ $\frac{4}{9}$ Why?</p> <p>Do, then explain Give an example of a fraction that is less than a half. Now another example that no one else will think of. Draw an image to explain how you know the fraction is less than a half.</p> <p>NRICH Fractional Wall</p>	<p>Telling the time to the hour, half hour and quarter hour</p> <p>Number facts: 4 and 8 times tables and division</p>
6	<ul style="list-style-type: none"> recognise and show, using diagrams, equivalent fractions with small denominators compare and order unit fractions, and fractions with the same denominators solve problems that involve all of the above <p>WALT use the denominator to compare and order unit fractions WALT use the numerator to compare and order fractions with the same denominator</p>	<ul style="list-style-type: none"> Compare fractions (<i>Summer term</i>) Order fractions (<i>Summer term</i>) 	<p>Bar model, numberline</p>	<p>Spot the mistake Ben put these fractions in order starting with the smallest. One fifth, one seventh, one sixth. How do you know?</p> <p>Do, then explain Arrange these fractions in size order: $\frac{3}{4}$ $\frac{2}{3}$ $\frac{5}{6}$ $\frac{1}{2}$ $\frac{4}{5}$ Explain what happens.</p>	<p>Harder fractions of amounts</p> <p>Number facts: multiplication and division round-up and check</p>