

## Language Provision Half-Termly Maths Learning Journey Overview

**Summer 1:2024**

### **As Mathematicians we will be...**

Developing our knowledge and understanding of Measurement and Fractions:

Finding half, quarters and thirds of shapes, objects and quantities, order fractions, understanding the numerator and denominator, convert fractions to decimals and percentages, measure length and height using non-standard and standard units, measure, compare and describe length and height, measure using a ruler accurately. measure to the nearest unit.

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<b>Dates:</b>		Mon 15.04.24	Mon 22.04.24	Mon 29.04.24	Tues 07.05.24	Mon 13.05.24	Mon 20.05.24
<b>Progression Step 1</b>	Fractions Length and Height	Revision week of last term's concepts  Place Value Addition and Subtraction	<ul style="list-style-type: none"> <li>★ Demonstrate sharing in play situations.</li> <li>★ Demonstrate some understanding that "share" requires them to distribute some of a group of objects.</li> <li>★ Share concrete objects so that everyone has one (in a group of 3).</li> <li>★ Break pliable materials into pieces.</li> <li>★ Folds cardboard into 2 roughly equal parts (eg, to make a card).</li> </ul>	★ Use the terms "big and small" in play.			
<b>Progression Step 2</b>	Fractions Length and Height	Revision week of last term's concepts  Place Value Addition and Subtraction	<ul style="list-style-type: none"> <li>★ Share objects in a group so that everyone has 4.</li> <li>★ Share objects in a group so that everyone has 5.</li> <li>★ Recognise half of a shape/quantity.</li> </ul>	<ul style="list-style-type: none"> <li>★ Put 3 objects in order of size from smallest to biggest.</li> <li>★ Put 5 objects in order of size from smallest to biggest.</li> <li>★ Describe objects as "big" and "small."</li> <li>★ Build a tower and compare its size with an object.</li> <li>★ Sort obviously bigger objects from smaller objects.</li> <li>★ Sort and compare big and small objects on request.</li> <li>★ Identify the smaller of 2 objects when there is a marked difference.</li> </ul>	<ul style="list-style-type: none"> <li>★ Describe objects as "long" and "short."</li> <li>★ Give an example of an object that is longer/shorter.</li> <li>★ Compares the lengths of different objects, correctly using terms "longer" "shorter" "same as."</li> <li>★ Finds 2 objects of similar length.</li> </ul>		

				<ul style="list-style-type: none"> <li>★ Identify the larger of 2 objects when there is a marked difference.</li> <li>★ Use the term "larger."</li> <li>★ Matches objects by size.</li> </ul>	
<b>Progression Step 3</b>	Fractions Length and Height	Revision week of last term's concepts  Place Value Addition and Subtraction	<ul style="list-style-type: none"> <li>★ Talk about half in conversations.</li> <li>★ Share objects into groups.</li> </ul>	<ul style="list-style-type: none"> <li>★ Orders a range of (clearly different size) objects depending on size.</li> <li>★ Identify the smallest/biggest object from a group of 5.</li> <li>★ Compare big and small objects where there is little difference.</li> </ul>	<ul style="list-style-type: none"> <li>★ Order a range of (clearly different size) objects depending on length.</li> <li>★ Find objects which are longer/shorter than a specified object.</li> <li>★ Draw lines with a ruler.</li> <li>★ Use comparative language to describe objects as high/low and longer/shorter.</li> </ul>
<b>Year 1</b>	Fractions Length and Height	Revision week of last term's concepts  Place Value Addition and Subtraction	<ul style="list-style-type: none"> <li>★ Know that 2 halves make a whole.</li> <li>★ Find half of a shape.</li> <li>★ Find half of a length.</li> <li>★ Find half of a set of objects.</li> <li>★ Divide groups of objects in half.</li> <li>★ Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</li> </ul>	<ul style="list-style-type: none"> <li>★ Measure using a ruler with support.</li> <li>★ Solve practical problems using involving height and length. <ul style="list-style-type: none"> <li>★ Describe length and height.</li> <li>★ Compare length and height.</li> </ul> </li> <li>★ Measure and begin to record length and height.</li> <li>★ Use the terms: long/short, longer/shorter, tall/short, double/half.</li> </ul>	
<b>Year 2</b>	Fractions Length and Height	Revision week of last term's concepts  Money Time Place Value	<ul style="list-style-type: none"> <li>• Chooses and uses appropriate standard units to estimate and measure length and height (m/cm)</li> <li>• Compares and orders lengths and records using &lt;, &gt; and =</li> <li>• Measures to the nearest unit</li> <li>• Use rulers</li> </ul>	<ul style="list-style-type: none"> <li>• Connects unit fractions to equal sharing and grouping</li> <li>• Counts in fractions to 10 starting at any number, and using the <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> equivalence on the number line</li> <li>• Demonstrates that <math>\frac{1}{2} = \frac{2}{4}</math></li> <li>• Finds a half and a quarter of a set of objects</li> <li>• Finds half and quarter of a length up to 100cm</li> <li>• Finds a half and a quarter of a shape</li> <li>• Reads and writes a <math>\frac{1}{4}</math></li> <li>• Reads and writes a <math>\frac{1}{2}</math></li> <li>• Recognises fractions <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math>, <math>\frac{1}{3}</math>, <math>\frac{2}{3}</math></li> <li>• Identifies, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math> and demonstrates that all parts must be equal parts of the whole</li> </ul>	

<p><b>Year 3</b></p>	<p>Fractions Length and Height <b>Perimeter</b></p>		<ul style="list-style-type: none"> <li>• Adds and subtracts lengths</li> <li>• Compares and uses simple equivalents of mixed units, EG: 5m = 500cm</li> <li>• Measures the perimeter of a simple 2D shape</li> <li>• Recognises the abbreviations for metric units of length: km, m, cm, mm</li> <li>• Solves problems involving scaling</li> <li>• Uses mixed units, EG: 1 m and 25cm</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrates understanding that a tenth is one part of a whole that has been divided into ten equal parts</li> <li>• Counts up and down in tenths</li> <li>• Connects tenths to decimal measures</li> <li>• Recognises fractions of a discrete set of objects</li> <li>• Recognises and uses unit fractions</li> <li>• Recognises and uses non-unit fractions (with small denominators)</li> <li>• Uses fractions as numbers (with small denominators)</li> <li>• Recognises and shows, using diagrams, equivalent fractions with small denominators</li> <li>• Add and subtract fractions with the same denominator within a whole</li> <li>• Compares and orders unit fractions</li> <li>• Orders fractions with the same denominator</li> </ul>
<p><b>Year 4</b></p>	<p><b>Fractions and Decimals</b> Length and Height <b>Perimeter and Area</b></p>		<ul style="list-style-type: none"> <li>• Relates area to arrays and multiplication</li> <li>• Records metric length in decimal notation</li> <li>• Finds the area of rectilinear shapes by counting squares</li> <li>• Converts between different units of length, EG: km to m</li> <li>• Expresses the perimeter of a rectangle algebraically as <math>2(a + b)</math> when the same unit of measurement has been used</li> <li>• Measures and calculates the perimeter of a rectilinear figure (including squares) in cm and m</li> </ul>	<ul style="list-style-type: none"> <li>• Adds and subtracts fractions with the same denominator within one whole</li> <li>• Compares fractions with the same denominator using <math>&lt;</math>, <math>&gt;</math> and <math>=</math></li> <li>• Compares numbers with the same number of decimal places up to 2 decimal places</li> <li>• Compares simple fractions using <math>&lt;</math>, <math>&gt;</math> and <math>=</math></li> <li>• Counts up and down in hundredths</li> <li>• Finds simple fractions of quantities, EG: <math>\frac{1}{4}</math> of 12 or <math>\frac{2}{3}</math> of 15</li> <li>• Finds and simply explains the effect of dividing a one or two digit number by dividing by 10</li> <li>• Finds and simply explains the effect of dividing a one or two digit number by 100</li> <li>• Interprets mixed numbers</li> <li>• Orders decimals on a number line</li> <li>• Recognises and writes decimal equivalent of <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math></li> <li>• Recognises common equivalent fractions</li> <li>• Recognises unit fractions to <math>\frac{1}{10^{\text{th}}}</math></li> <li>• Rounds decimals with 1 decimal place to nearest whole number</li> <li>• Solves simple measurement problems</li> <li>• Solves simple money problems involving fractions and decimals to two decimal places</li> <li>• Understands decimal notation and place value</li> <li>• Writes the decimal equivalent of any number of hundredths</li> <li>• Writes the decimal equivalent of any number of tenths</li> </ul>