

## Language Provision Half-Termly Maths Learning Journey Overview

Summer 2:2024

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<b>Dates:</b>		Mon 03.06.24	Mon 10.06.24	Mon 17.06.24	Tues 24.06.24	Mon 01.07.24	Mon 08.07.24	Mon 15.07.24
<b>Progression Step 1</b>	Position and Direction Mass and Volume	<b>Weight and Mass</b>		<b>Capacity and Volume</b>		<b>Position and Direction</b>		<b>Temperature</b>
		<ul style="list-style-type: none"> <li>★ Pick up sand with a tool</li> <li>★ Put objects in a bag to carry them</li> <li>★ Use the terms “heavy” and “light” in play situations</li> </ul>	<ul style="list-style-type: none"> <li>★ Fill a container</li> <li>★ Fill a container with objects</li> <li>★ Explore the use of objects in water play</li> <li>★ Pour water from one container to another with little spillage</li> <li>★ Drink from a cup placed in front of them, expecting it to contain liquid</li> </ul>	<ul style="list-style-type: none"> <li>★ Assemble a 4 piece puzzle</li> <li>★ Assemble a 6 piece puzzle</li> <li>★ Place objects in a line</li> <li>★ Put an object together with assistance</li> <li>★ Watch a member of staff rebuild an object</li> <li>★ Place bricks on top of each other successfully</li> <li>★ Start to be able to find an object with one specific characteristic</li> <li>★ Communicate and follow instructions using the terms “in” and “out”</li> <li>★ Identify movements as “up” and “down”</li> <li>★ Find an object by location.</li> <li>★ Underwrite a simple drawn pattern</li> <li>★ Communicate using positional language</li> </ul>	<ul style="list-style-type: none"> <li>★ Know ice cream melts</li> <li>★ Understand that the cooker makes food hot</li> <li>★ Identify that the sun is seen through the day</li> <li>★ Show an awareness of danger when objects are hot</li> <li>★ Observe and respond to the results of putting water in the freezer</li> <li>★ Observe and respond to the results of putting ice in the sun</li> <li>★ Describe how the temperature of water feels in simple terms</li> </ul>			
<b>Progression Step 2</b>	Position and Direction Mass and Volume	<ul style="list-style-type: none"> <li>★ Point to an object which is obviously heavier than another without picking it up</li> </ul>	<ul style="list-style-type: none"> <li>★ Identify which container has more liquid</li> <li>★ Identify which container has less liquid</li> </ul>	<ul style="list-style-type: none"> <li>★ Copy a pattern using real life objects</li> <li>★ Copy a simple linear pegboard pattern of 5 pegs</li> </ul>	<ul style="list-style-type: none"> <li>★ Describe what a thermometer measures</li> </ul>			

		<ul style="list-style-type: none"> <li>★ Describe the weight of an object I am carrying, eg a bag of shopping</li> <li>★ From a choice of 2, find the lighter/heavier package</li> <li>★ Find an object that is heavier/lighter than another with minimal assistance</li> <li>★ Compare the weight of 2 objects with assistance</li> <li>★ Move objects on a scale in an attempt to make them balance</li> <li>★ Balance objects on a weighing scale</li> <li>★ State when I have observed objects balance</li> </ul>	<ul style="list-style-type: none"> <li>★ Find out which container holds the most</li> <li>★ Find out which container holds the least</li> <li>★ Indicate that different containers can hold different amounts</li> <li>★ Note the amount of water in one container when pouring it into another</li> </ul>	<ul style="list-style-type: none"> <li>★ Discuss patterns in terms of shapes/line/colour</li> <li>★ Turn objects to align them</li> <li>★ Respond appropriately to position-based terminology</li> <li>★ Move an object forwards on command</li> <li>★ Move an object backwards on command</li> <li>★ Describe the directional movement of an object</li> </ul>	<ul style="list-style-type: none"> <li>★ Notice the change in temperature on a thermometer</li> <li>★ Predict what will happen when something is taken out of the freezer</li> <li>★ Expect something to come out of the freezer to feel cold</li> <li>★ Identify that food is placed in an oven to warm it up</li> <li>★ Identify that food is placed in the freezer to keep it cold/frozen</li> <li>★</li> </ul>
<b>Progression Step 3</b>	Position and Direction Mass and Volume	<ul style="list-style-type: none"> <li>★ Order 2 objects/items by weight</li> <li>★ Compare weights by handling</li> <li>★ Find objects lighter/heavier than a specified item</li> <li>★ Help a member of staff to use weighing scales in order to compare the weight of something</li> <li>★ Use comparative language to describe an object as light or heavy, lighter or heavier</li> </ul>	<ul style="list-style-type: none"> <li>★ Find which box will hold a specific shaped or sized object</li> <li>★ Fill an empty container and use appropriate language to describe what I have done</li> <li>★ Order 2 items by capacity</li> <li>★ Compare which container holds more and less</li> <li>★ Estimate the number of cubes in a container</li> <li>★ Count cubes into a container</li> </ul>	<ul style="list-style-type: none"> <li>★ Rotate puzzle pieces to fit into place</li> <li>★ Assemble a 10-piece puzzle</li> <li>★ Build using geometric construction materials</li> <li>★ Continue and create a pattern using real-life materials</li> <li>★ Find objects from simple positional and directional clues</li> <li>★ Place objects when asked “on top of” etc</li> <li>★ Describe where objects are in relation to others using positional language</li> <li>★ Physically follow “forward, backward and turn” instructions</li> </ul>	<ul style="list-style-type: none"> <li>★ List ways to heat something up</li> <li>★ List ways to cool something down</li> <li>★ Recognise that very hot objects burn</li> <li>★ Identify that the sun creates warmth</li> <li>★ Express the terms “hot” and “cold” appropriately</li> </ul>

				<ul style="list-style-type: none"> <li>★ Give another person forward, backward and turn instructions to move from one point to another</li> </ul>	<ul style="list-style-type: none"> <li>★ Name some objects that can be hot</li> <li>★ Describe simply how the temperature feels, eg when going outside</li> <li>★ Compare the temperature of water using my hands</li> </ul>	
<b>Year 1</b>	Position and Direction Mass and Volume Temperature	<ul style="list-style-type: none"> <li>★ Describe weight/mass</li> <li>★ Compare weight/mass</li> <li>★ Begin to use scales</li> <li>★ Solve simple practical problems involving mass and weight</li> <li>★ Measure and begin to record mass and weight in standard units with support (g, kg)</li> <li>★ Use the terms heavy/light/heavier than/lighter than</li> </ul>	<ul style="list-style-type: none"> <li>★ Begin to use containers to compare capacity</li> <li>★ Compare and describe capacity and volume</li> <li>★ Solve practical problems involving capacity and volume</li> <li>★ Record measurements for capacity and volume in terms of units, eg cups</li> <li>★ Use the terms: full/empty/half/half full/more than/less than/quarter</li> </ul>	<p>Use Language of Position:</p> <ul style="list-style-type: none"> <li>★ On top</li> <li>★ Under</li> <li>★ In front</li> <li>★ Behind</li> <li>★ Above</li> <li>★ Below</li> <li>★ Near</li> <li>★ Far</li> <li>★ Around</li> <li>★ Up</li> <li>★ Down</li> <li>★ Inside</li> <li>★ Outside</li> </ul> <p>Use Language of Direction:</p> <ul style="list-style-type: none"> <li>★ Left</li> <li>★ Right</li> <li>★ Forwards</li> <li>★ Backwards</li> <li>★ Describe direction of turn using clockwise and anti-clockwise</li> <li>★ Make whole, half, quarter and three-quarter turns</li> </ul>	<ul style="list-style-type: none"> <li>★ Describe different temperatures using a variety of simple appropriate terms</li> <li>★ Compare temperatures given as numbers eg 5 degrees is colder than 10 degrees.</li> </ul>	
		<b>Weight and Mass</b>	<b>Capacity and Volume</b>	<b>Position and Direction</b>	<b>Temperature</b>	<b>Statistics</b>

<p><b>Year 2</b></p>	<p>Position and Direction Statistics Mass, Capacity and Temperature</p>	<ul style="list-style-type: none"> <li>★ Chooses and uses appropriate standard units to estimate and measure weight/mass (kg/g)</li> <li>★ Compares and orders mass and records using &gt;&lt; and =</li> <li>★ Uses scales</li> <li>★ Reads scales in divisions of ones, twos, fives, and tens (PKSS)</li> </ul>	<ul style="list-style-type: none"> <li>★ Chooses and uses appropriate standard units to estimate and measure capacity (litres/ml)</li> <li>★ Compares and orders volume/capacity &amp; records using &gt;&lt; and =</li> <li>★ Uses measuring vessels</li> </ul>	<ul style="list-style-type: none"> <li>★ Arranges mathematical objects in patterns</li> <li>★ Describes movement using the language of direction, EG: backwards, left</li> <li>★ Expresses a turn in relation to a right angle</li> <li>★ Orders mathematical objects in a sequence</li> <li>★ Recognises that a quarter turn is a right angle</li> <li>★ States how many right angles in a quarter, half and three-quarter turn</li> <li>★ Uses mathematical vocabulary to describe position</li> </ul>	<ul style="list-style-type: none"> <li>★ Chooses and uses appropriate standard units to estimate and measure temperature (°C)</li> <li>★ Compares, orders and records temperature using &gt; &lt; and =</li> <li>★ Measures temperature using a thermometer with some accuracy</li> </ul>	<ul style="list-style-type: none"> <li>★ Interprets and constructs simple pictograms</li> <li>★ Interprets and constructs tally charts</li> <li>★ Interprets and constructs block diagrams</li> <li>★ Interprets and constructs simple tables</li> <li>★ Counts objects in each category to find the total</li> <li>★ Sorts categories by quantities</li> <li>★ Solves questions relating to totalling</li> <li>★ Asks questions about totalling</li> <li>★ Compares categorical data</li> <li>★ Collates and organises information</li> <li>★ Compares information</li> </ul>
<p><b>Year 3</b></p>	<p>Position and Direction Statistics Mass and Capacity</p>	<ul style="list-style-type: none"> <li>★ Adds and subtracts mass</li> <li>★ Compares and uses simple equivalents of mixed units ie 5kg = 5000g</li> </ul>	<ul style="list-style-type: none"> <li>★ Adds and subtracts capacity</li> <li>★ Compares and uses simple equivalents of</li> </ul>	<p>No LOs in Year 3 curriculum – look to Year 4 curriculum</p>	<ul style="list-style-type: none"> <li>★ Recognises the abbreviations for metric units of</li> </ul>	<ul style="list-style-type: none"> <li>★ Interprets and presents data using bar charts</li> <li>★ Solves one step and two step</li> </ul>

		<ul style="list-style-type: none"> <li>★ Recognises the abbreviations for metric units of mass: kg, g</li> <li>★ Uses mixed units, e.g. 1 kg and 37 g</li> <li>★ Reads scales where not all numbers on the scale are given and estimates points in between</li> </ul>	<p>mixed units ie 5l = 5000ml</p> <ul style="list-style-type: none"> <li>★ Recognises the abbreviations for metric units of capacity: l, ml</li> <li>★ Uses mixed units, e.g. 1 l and 12 ml</li> </ul>		<p>temperature °C</p> <ul style="list-style-type: none"> <li>★ Solves temperature problems involving addition and subtraction</li> </ul>	<p>questions using information presented in scaled bar charts Interprets and presents data using pictograms</p> <ul style="list-style-type: none"> <li>★ Solves one step and two step questions using information presented in pictograms</li> <li>★ Interprets and presents data using tables</li> <li>★ Solves one step and two step questions using information presented in tables</li> <li>★ Understands and uses simple scales in pictograms and bar charts</li> <li>★ Interprets data in many contexts</li> </ul>
<b>Year 4</b>	Position and Direction Statistics Mass and Capacity	<ul style="list-style-type: none"> <li>★ Solves simple measurement problems involving weight</li> <li>★ Records metric weight in decimal notation</li> <li>★ Converts between different units of mass/weight [for example, kilogram to gram]</li> </ul>	<ul style="list-style-type: none"> <li>★ Converts between different units of capacity/volume [for example, litre to millilitre]</li> <li>★ Solves simple measurement problems involving capacity</li> <li>★ Records metric capacity in decimal notation</li> </ul>	<ul style="list-style-type: none"> <li>★ Describes movements between positions using the terms 'up' and 'down', 'left' and 'right'</li> </ul>	<ul style="list-style-type: none"> <li>★ Solves simple measurement problems involving temperature</li> </ul>	<ul style="list-style-type: none"> <li>★ Interprets discrete and continuous data using graphical methods</li> <li>★ Interprets discrete and continuous</li> </ul>

				<ul style="list-style-type: none"><li>★ Draws a pair of axes with equal scales</li><li>★ Gives position co-ordinates on a 2D grid</li><li>★ Labels the axes on graphs</li><li>★ Plots specified points</li><li>★ Plots specified points and draws sides to complete a given polygon</li><li>★ Uses a co-ordinate plotting ICT tool</li></ul>		<ul style="list-style-type: none"><li>data using time graphs</li><li>★ Solves comparison, sum and difference problems using information presented in a bar chart</li><li>★ Solves comparison, sum and difference problems using information presented in a pictogram</li><li>★ Solves comparison, sum and difference problems using information presented in tables</li><li>★ Solves comparison, sum and difference problems using information presented in other graphs/charts</li><li>★ Understands and uses a greater range</li></ul>
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						<p>of scales in their representations</p> <ul style="list-style-type: none"><li>★ Relates the graphical representation of data to record changes over time</li></ul>
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