

Number sense 2.8	Length of unit: 2 weeks	Week beg:	Year: 2	Teacher:
<p>Success criteria</p> <p>Pupils can measure in different contexts, choosing the appropriate unit and equipment and reading the scales to the nearest number.</p>	<p>Prior Learning:</p> <p>Check that children can already</p> <ul style="list-style-type: none"> ● count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number ● count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens ● given a number, identify one more and one less ● identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least ● read and write numbers from 1 to 20 in numerals and words ● compare, describe and solve practical problems for: <ul style="list-style-type: none"> ● lengths and heights [for example, long / short, longer / shorter, tall / short, double / half] ● mass or weight [for example, heavy / light, heavier than, lighter than] ● capacity / volume [for example, full / empty, more than, less than, half, half full, quarter] ● time [for example, quicker, slower, earlier, later] ● recognise and use language relating to dates, including days of the week, weeks, months and years ● sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] ● recognise and know the value of different denominations of coins and notes ● measure and begin to record the following: <ul style="list-style-type: none"> ● lengths and heights ● mass / weight ● capacity and volume ● time (hours, minutes, seconds) 		<p>Resources</p> <p>Maths vocabulary book</p> <p>Using and Applying in every maths lesson</p> <p>Assessment through guided maths</p> <p>Think Maths!</p> <p>Pitch and Expectations Y2</p> <p>Models and Images</p> <p>Overcoming Barriers to learning Level 1 to 2/Level 2 to 3</p> <p>Securing Level 1/Level 2/Level 3</p>	
<p>Guidance</p> <p>Using materials and a range of representations, pupils practice counting, reading, writing and comparing numbers to at least 100 and solving a variety of related problems to develop fluency.</p> <p>As they become more confident with numbers up to 100, pupils are introduced to larger numbers to develop further their recognition of patterns within the number system and represent them in different ways, including spatial representations.</p> <p>Pupils should partition numbers in different ways (for example, $23 = 20 + 3$ and $23 = 10 + 13$) to support subtraction. They become fluent and apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two digit numbers.</p> <p>They begin to understand zero as a place holder.</p>				

Learning objectives

Pupils should be taught to:

Number and place value

- count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward
- recognise the place value of each digit in a two-digit number (tens, ones)
- identify, represent and estimate numbers using different representations, including the number line
- compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs
- read and write numbers to at least 100 in numerals and in words
- use place value and number facts to solve problems

Measurement

- choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg / g); temperature ($^{\circ}$ C); capacity (litres / ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- compare and order lengths, mass, volume / capacity and record the results using $>$, $<$ and $=$
- compare and sequence intervals of time

Pupil outcomes:

I can explain why I chose a particular ruler to measure the height of my plant in my science experiment and I can keep a record of the height of my plant throughout the experiment.

I can use thermometer to measure and record the temperature in different parts of the school to find the warmest place for my plant.