

# Numeracy Medium term planning with differentiation. Class 1 Year 1.

Autumn A 2019

Activities and groups adapted as necessary following ongoing formative assessments.

<u>Week</u>	<u>Unit</u>	<u>Starters</u>	<u>Circles</u>	<u>Triangle</u>	<u>Squares</u>	<u>Rectangles</u>
<p><b>Week 1</b> 2<sup>nd</sup> Sept 6<sup>th</sup> Sept</p>	<p><b>Place Value</b></p> <p>Sorting objects</p> <p>Counting objects</p>	<p>Counting forwards/backwards below 10.</p> <p>Read numerals 1-10</p>	<p>All within numbers 1-5</p> <p><u>Sorting Objects</u> <b>Varied fluency:</b> Sort objects into groups and explain how you have sorted them. Explain how objects have been grouped.</p> <p><b>Reasoning and problem solving:</b> How many different ways can objects be grouped?</p> <p><u>Count Objects</u> <b>Varied fluency:</b> How many red cubes and how many green cubes are there? Match the numbers to the correct amount of teddies. Group items, and then count each group.</p> <p><b>Reasoning and problem solving:</b> How many different ways can you find to group the objects and find the totals?</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-5</p> <p><u>Sorting Objects</u> <b>Varied fluency:</b> Sort objects into groups and explain how you have sorted them. Explain how objects have been grouped.</p> <p><b>Reasoning and problem solving:</b> How many different ways can objects be grouped?</p> <p><u>Count Objects</u> <b>Varied fluency:</b> How many red cubes and how many green cubes are there? Match the numbers to the correct amount of teddies. Group items, and then count each group.</p> <p><b>Reasoning and problem solving:</b> How many different ways can you find to group the objects and find the totals?</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>Sorting Objects</u> <b>Varied fluency:</b> Sort objects into groups and explain how you have sorted them. Explain how objects have been grouped.</p> <p><b>Reasoning and problem solving:</b> How many different ways can objects be grouped?</p> <p><u>Count Objects</u> <b>Varied fluency:</b> How many red cubes and how many green cubes are there? Match the numbers to the correct amount of teddies. Group items, and then count each group.</p> <p><b>Reasoning and problem solving:</b> How many different ways can you find to group the objects and find the totals?</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>Sorting Objects</u> <b>Varied fluency:</b> Sort objects into groups and explain how you have sorted them. Explain how objects have been grouped.</p> <p><b>Reasoning and problem solving:</b> How many different ways can objects be grouped?</p> <p><u>Count Objects</u> <b>Varied fluency:</b> How many red cubes and how many green cubes are there? Match the numbers to the correct amount of teddies. Group items, and then count each group.</p> <p><b>Reasoning and problem solving:</b> How many different ways can you find to group the objects and find the totals?</p> <p><i>Independently beginning to apply mental methods.</i></p>

<p><b>Week 2</b> 9<sup>th</sup> Sept 13<sup>th</sup> Sept</p>	<p><b>Place Value</b></p> <p>Sorting objects</p> <p>Counting objects</p> <p>Represent objects</p>	<p>Counting forwards/backwards below 10.</p> <p>Read/Write numerals 1-10</p>	<p>All within numbers 1-5</p> <p><b>Represent Objects</b></p> <p><b>Varied fluency:</b> Using counters, show that the amount of objects can be represented by numerals. How many 'whales' can you see in the picture? Picture it/Draw it/Number it/Write it.</p> <p><b>Reasoning and problem solving:</b> How many ways can you represent 3 apples? Match the representation to the group.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-5</p> <p><b>Represent Objects</b></p> <p><b>Varied fluency:</b> Using counters, show that the amount of objects can be represented by numerals. How many 'whales' can you see in the picture? Picture it/Draw it/Number it/Write it.</p> <p><b>Reasoning and problem solving:</b> How many ways can you represent 3 apples? Match the representation to the group.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b>Represent Objects</b></p> <p><b>Varied fluency:</b> Using counters, show that the amount of objects can be represented by numerals. How many 'whales' can you see in the picture? Picture it/Draw it/Number it/Write it.</p> <p><b>Reasoning and problem solving:</b> How many ways can you represent 6 apples? Match the representation to the group.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b>Represent Objects</b></p> <p><b>Varied fluency:</b> Using counters, show that the amount of objects can be represented by numerals. How many 'whales' can you see in the picture? Picture it/Draw it/Number it/Write it.</p> <p><b>Reasoning and problem solving:</b> How many ways can you represent 6 apples? Match the representation to the group.</p> <p><i>Independently beginning to apply mental methods.</i></p>
<p><b>Week 3</b> 16<sup>th</sup> Sept 20<sup>th</sup> Sept</p>	<p><b>Place Value</b></p> <p>Count forwards</p> <p>Count backwards</p>	<p>Counting forwards / backwards below 10.</p> <p>Read/Write numerals 1-10</p>	<p>All within numbers 1-5</p> <p><b>Count forwards</b></p> <p><b>Varied fluency:</b> Complete number tracks in picture, numbers and words. Fill in the missing numbers.</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes.</p> <p><b>Count backwards</b></p> <p><b>Varied fluency:</b> Write numerals to match cubes. Complete number tracks. Fill in empty boxes.</p> <p><b>Reasoning and problem solving:</b> How do you know someone is counting backwards. Count back from different starting points.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b>Count forwards</b></p> <p><b>Varied fluency:</b> Complete number tracks in picture, numbers and words. Fill in the missing numbers.</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes.</p> <p><b>Count backwards</b></p> <p><b>Varied fluency:</b> Write numerals to match cubes. Complete number tracks. Fill in empty boxes.</p> <p><b>Reasoning and problem solving:</b> How do you know someone is counting backwards. Count back from different starting points.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b>Count forwards</b></p> <p><b>Varied fluency:</b> Complete number tracks in picture, numbers and words. Fill in the missing numbers.</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes.</p> <p><b>Count backwards</b></p> <p><b>Varied fluency:</b> Write numerals to match cubes. Complete number tracks. Fill in empty boxes.</p> <p><b>Reasoning and problem solving:</b> How do you know someone is counting backwards. Count back from different starting points.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20 (if appropriate)</p> <p><b>Count forwards</b></p> <p><b>Varied fluency:</b> Complete number tracks in picture, numbers and words. Fill in the missing numbers.</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes.</p> <p><b>Count backwards</b></p> <p><b>Varied fluency:</b> Write numerals to match cubes. Complete number tracks. Fill in empty boxes.</p> <p><b>Reasoning and problem solving:</b> How do you know someone is counting backwards. Count back from different starting points.</p> <p><i>Independently beginning to apply mental methods.</i></p>

<p><b>Week 4</b> 23<sup>rd</sup> Sept 27<sup>th</sup> Sept</p>	<p><b>Place Value</b></p> <p>Count one more</p> <p>Count one less</p>		<p>All within numbers 1-5</p> <p><u>Count one more</u> <b>Varied fluency:</b> Complete boxes for one more using picture, numeral and a word. Roll dice and add 1 more. Complete table for numbers below 5 (numeral, word, number track, one more)</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes. Who is the oldest?</p> <p><u>Count backwards</u> <b>Varied fluency:</b> As above.</p> <p><b>Reasoning and problem solving:</b> Think of a statement. Complete number sentences.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>Count one more</u> <b>Varied fluency:</b> Complete boxes for one more using picture, numeral and a word. Roll dice and add 1 more. Complete table for numbers below 10 (numeral, word, number track, one more)</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes. Who is the oldest?</p> <p><u>Count backwards</u> <b>Varied fluency:</b> As above.</p> <p><b>Reasoning and problem solving:</b> Think of a statement. Complete number sentences.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>Count one more</u> <b>Varied fluency:</b> Complete boxes for one more using picture, numeral and a word. Roll dice and add 1 more. Complete table for numbers below 10 (numeral, word, number track, one more)</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes. Who is the oldest?</p> <p><u>Count backwards</u> <b>Varied fluency:</b> As above.</p> <p><b>Reasoning and problem solving:</b> Think of a statement. Complete number sentences.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20 (if appropriate)</p> <p><u>Count one more</u> <b>Varied fluency:</b> Complete boxes for one more using picture, numeral and a word. Roll dice and add 1 more. Complete table for numbers below 20 (numeral, word, number track, one more)</p> <p><b>Reasoning and problem solving:</b> Spotting mistakes. Who is the oldest?</p> <p><u>Count backwards</u> <b>Varied fluency:</b> As above.</p> <p><b>Reasoning and problem solving:</b> Think of a statement. Complete number sentences.</p> <p><i>Independently beginning to apply mental methods.</i></p>
<p><b>Week 5</b> 30<sup>th</sup> Sept 4<sup>th</sup> Oct</p>	<p><b>Place Value</b></p> <p>1to1 correspondence</p> <p>Compare objects</p>	<p>Say the number one more or one less than any given number.</p>	<p>All within numbers 1-10</p> <p><u>1to1 Correspondence</u> <b>Varied fluency:</b> Match objects and images. Are there enough objects?</p> <p><b>Reasoning and problem solving:</b> Are there enough for different scenarios?</p> <p><u>Compare Objects</u> <b>Varied fluency:</b> Circle the picture with the most objects? Use greater than, less than and equal to, to compare groups.</p> <p><b>Reasoning and problem solving:</b> Different scenarios for different amounts of objects.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>1to1 Correspondence</u> <b>Varied fluency:</b> Match objects and images. Are there enough objects?</p> <p><b>Reasoning and problem solving:</b> Are there enough for different scenarios?</p> <p><u>Compare Objects</u> <b>Varied fluency:</b> Circle the picture with the most objects? Use greater than, less than and equal to, to compare groups.</p> <p><b>Reasoning and problem solving:</b> Different scenarios for different amounts of objects.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><u>1to1 Correspondence</u> <b>Varied fluency:</b> Match objects and images. Are there enough objects?</p> <p><b>Reasoning and problem solving:</b> Are there enough for different scenarios?</p> <p><u>Compare Objects</u> <b>Varied fluency:</b> Circle the picture with the most objects? Use greater than, less than and equal to, to compare groups.</p> <p><b>Reasoning and problem solving:</b> Different scenarios for different amounts of objects.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20 (if appropriate)</p> <p><u>1to1 Correspondence</u> <b>Varied fluency:</b> Match objects and images. Are there enough objects?</p> <p><b>Reasoning and problem solving:</b> Are there enough for different scenarios?</p> <p><u>Compare Objects</u> <b>Varied fluency:</b> Circle the picture with the most objects? Use greater than, less than and equal to, to compare groups.</p> <p><b>Reasoning and problem solving:</b> Different scenarios for different amounts of objects.</p> <p><i>Independently beginning to apply mental methods.</i></p>

<p><b>Week 6</b> 7<sup>th</sup> Oct 11<sup>th</sup> Oct</p>	<p><b>Addition / Subtraction</b></p> <p>Part-Whole model</p> <p>Addition symbol</p>		<p>All within numbers 1-10</p> <p><b><u>Part-Whole Model</u></b></p> <p><b>Varied fluency:</b> Complete Part-Whole models by drawing counters and then writing the numerals. Complete part-whole model for different sentences.</p> <p><b>Reasoning and problem solving:</b> Group objects and complete part-whole model for each. Group children in terms of eye colour, gender, etc.</p> <p><b><u>Addition symbol</u></b></p> <p><b>Varied fluency:</b> Group counters by colour, then complete sentence using addition. Complete part-whole model and number sentence using + Use cubes to solve addition sentences.</p> <p><b>Reasoning and problem solving:</b> Which images could help to complete number sentence? Complete addition with empty boxes.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b><u>Part-Whole Model</u></b></p> <p><b>Varied fluency:</b> Complete Part-Whole models by drawing counters and then writing the numerals. Complete part-whole model for different sentences.</p> <p><b>Reasoning and problem solving:</b> Group objects and complete part-whole model for each. Group children in terms of eye colour, gender, etc.</p> <p><b><u>Addition symbol</u></b></p> <p><b>Varied fluency:</b> Group counters by colour, then complete sentence using addition. Complete part-whole model and number sentence using + Use cubes to solve addition sentences.</p> <p><b>Reasoning and problem solving:</b> Which images could help to complete number sentence? Complete addition with empty boxes.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20 (if appropriate)</p> <p><b><u>Part-Whole Model</u></b></p> <p><b>Varied fluency:</b> Complete Part-Whole models by drawing counters and then writing the numerals. Complete part-whole model for different sentences.</p> <p><b>Reasoning and problem solving:</b> Group objects and complete part-whole model for each. Group children in terms of eye colour, gender, etc.</p> <p><b><u>Addition symbol</u></b></p> <p><b>Varied fluency:</b> Group counters by colour, then complete sentence using addition. Complete part-whole model and number sentence using + Use cubes to solve addition sentences.</p> <p><b>Reasoning and problem solving:</b> Which images could help to complete number sentence? Complete addition with empty boxes.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20</p> <p><b><u>Part-Whole Model</u></b></p> <p><b>Varied fluency:</b> Complete Part-Whole models by drawing counters and then writing the numerals. Complete part-whole model for different sentences.</p> <p><b>Reasoning and problem solving:</b> Group objects and complete part-whole model for each. Group children in terms of eye colour, gender, etc.</p> <p><b><u>Addition symbol</u></b></p> <p><b>Varied fluency:</b> Group counters by colour, then complete sentence using addition. Complete part-whole model and number sentence using + Use cubes to solve addition sentences.</p> <p><b>Reasoning and problem solving:</b> Which images could help to complete number sentence? Complete addition with empty boxes.</p> <p><i>Independently beginning to apply mental methods.</i></p>
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<p><b>Week 7</b> 14<sup>th</sup> Oct 18<sup>th</sup> Oct</p>	<p><b>Addition / Subtraction</b></p> <p>Addition facts</p> <p>Number bonds within 10</p>		<p>All within numbers 1-10</p> <p><b>Addition facts</b></p> <p><b>Varied fluency:</b> Use counters and part-whole model to fill in missing numbers. Complete number sentences. Use number cards to make addition sentences.</p> <p><b>Reasoning and problem solving:</b> Correct number sentences. What could the images represent in an addition sentence?</p> <p><b>Number bonds to 10</b></p> <p><b>Varied fluency:</b> Using 5 cubes to break apart in different ways. How many different ways can you make 7?</p> <p><b>Reasoning and problem solving:</b> How many different ways can you split objects? Always, Sometimes, Never... Odd One Out.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-10</p> <p><b>Addition facts</b></p> <p><b>Varied fluency:</b> Use counters and part-whole model to fill in missing numbers. Complete number sentences. Use number cards to make addition sentences.</p> <p><b>Reasoning and problem solving:</b> Correct number sentences. What could the images represent in an addition sentence?</p> <p><b>Number bonds to 10</b></p> <p><b>Varied fluency:</b> Using 5 cubes to break apart in different ways. How many different ways can you make 7?</p> <p><b>Reasoning and problem solving:</b> How many different ways can you split objects? Always, Sometimes, Never... Odd One Out.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20 (if appropriate)</p> <p><b>Addition facts</b></p> <p><b>Varied fluency:</b> Use counters and part-whole model to fill in missing numbers. Complete number sentences. Use number cards to make addition sentences.</p> <p><b>Reasoning and problem solving:</b> Correct number sentences. What could the images represent in an addition sentence?</p> <p><b>Number bonds to 10</b></p> <p><b>Varied fluency:</b> Using 5 cubes to break apart in different ways. How many different ways can you make 7?</p> <p><b>Reasoning and problem solving:</b> How many different ways can you split objects? Always, Sometimes, Never... Odd One Out.</p> <p><i>Independently beginning to apply mental methods.</i></p>	<p>All within numbers 1-20</p> <p><b>Addition facts</b></p> <p><b>Varied fluency:</b> Use counters and part-whole model to fill in missing numbers. Complete number sentences. Use number cards to make addition sentences.</p> <p><b>Reasoning and problem solving:</b> Correct number sentences. What could the images represent in an addition sentence?</p> <p><b>Number bonds to 10</b></p> <p><b>Varied fluency:</b> Using 5 cubes to break apart in different ways. How many different ways can you make 7?</p> <p><b>Reasoning and problem solving:</b> How many different ways can you split objects? Always, Sometimes, Never... Odd One Out.</p> <p><i>Independently beginning to apply mental methods.</i></p>
<p><b>Week 8</b> 21<sup>st</sup> Oct 25<sup>th</sup> Oct</p>	<p>Assessment Week</p>					