






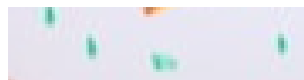
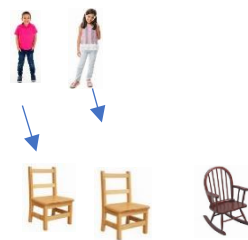


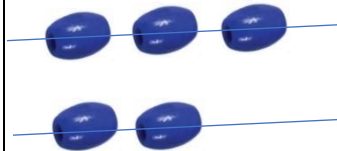


F1	Subtraction	
Vocabulary: subitise, less, fewer, subtract, smaller, number, numeral, draw it, how many are left? What do you see? What is different? What is missing?		
Concrete	Pictorial	Abstract
<p>Perceptual subitising</p> <p>Instantly recognising how many are in a small set.</p> <p>Initially focus on items arranged in <u>regular arrangements</u> e.g., dice/domino patterns.</p> 	<p>Number talk</p> <p>Plan number talk opportunities and take advantage of incidental opportunities for number talk when looking at books and images or when drawing, drawing attention to subitising and/or the concepts of making an amount smaller, 1 less, how a group/number/part can be removed.</p> 	<p>No formal written method.</p> <p>Mental</p> <p>Encourage children to visualise a particular dice pattern and attempt to ‘draw the dots’ in the air/arrange toys or manipulatives in that way.</p> <p>Behind a screen, tap an instrument twice, pause then do one less tap...”How many times did I tap my instrument the second time? Was it more or less?”</p>
<p>Discussion of mathematical ideas throughout the day</p> <p>Attention to an amount/a group getting smaller when a part is removed. E.g., balls of playdough, milk in a cup, sand in a bucket.</p>  <p>“First I had a big ball of playdough...then I removed some...now I have got a smaller ball of playdough, I have less.”</p> <p>“We’ve got 5 children in our circle, 2 children leave...oh look our circle is smaller now, first we had 5 children...then 2 children went away...now...how many children have we got left?”</p>	 <p>“1, 2, 3, there are 3 children left”.</p>	<p>Begin to explore with own symbols and marks (jottings)</p>  
<p>One less</p> <p>“4 children are in my line. 1 runs out of the line... that makes 3 children in my line.”</p>		

<p><i>"I'm picking up my toy cars...1...2...3...4. 1 car drives away. Now I have 3 toy cars!"</i></p>  <p>Picture books, songs and rhymes for 1 less.</p>		<p><i>Begin to explore with own symbols and marks (jottings)</i></p> 
<p><u>One to one correspondance</u></p> <p><i>"Have we got enough chairs? We have too many. We need to put one back. Now we have 2 chairs."</i></p> 		
<p><u>Subtracting a group/part.</u></p> <p><i>"1 pinecone standing up and 1 pinecone rolls away. I have 1 pinecone left."</i></p> 		<p><i>Match amounts to numerals</i></p> 
<p><u>Begin to compare amounts</u></p> <p><i>Beads</i></p> <p><i>What do you see? Which necklace has less number of beads? Can you make a necklace which has less beads than my necklace?</i></p> 	<p><i>Children draw the beads on a line.</i></p>	