<table>
<thead>
<tr>
<th>PLACE VALUE (small bases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At the concept level</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>At the connecting level (labeling with symbols)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>At the symbolic level (recording the pattern)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Searches for the pattern, loops and colors the repetitions</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Can predict the next step of the pattern</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Records the number pattern</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Searches for the pattern, loops and colors the repetitions</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Can predict the next step of the pattern</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Can see a pattern between the different bases, relating the +2, –2 pattern from one base to another</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Using two place value boards (placed side by side) the child can play the +1, –1 place value counting game at the concept level, regrouping to four places in any base from three to six.</td>
</tr>
</tbody>
</table>
### PLACE VALUE (base 10)

<table>
<thead>
<tr>
<th>Using the place value board, the child can play the $+1, -1$ counting game in base ten.</th>
<th>Using the place value board, the child can add constant numbers, record the pattern, loop and color the repetitions, and predict the next step of the pattern in base ten.</th>
<th>Using the place value board, the child can solve any addition or subtraction problem, borrowing and regrouping correctly.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>At the concept level</strong></td>
<td><strong>At the concrete level</strong> (labelling with symbols)</td>
<td><strong>At the symbolic level</strong> (recording the pattern)</td>
</tr>
<tr>
<td><strong>Searches for the pattern, loops and colors the repetitions</strong></td>
<td><strong>Can predict the next step of the pattern</strong></td>
<td><strong>Can add and subtract using two place value boards (placed side by side), regrouping</strong></td>
</tr>
<tr>
<td>+2, -2</td>
<td>+3, -3</td>
<td>+4, -4</td>
</tr>
<tr>
<td>+5, -5</td>
<td>+6, -6</td>
<td>+7, -7</td>
</tr>
<tr>
<td>+8, -8</td>
<td>+9, -9</td>
<td>+10, -10</td>
</tr>
<tr>
<td>+11, -11</td>
<td>+12, -12</td>
<td><strong>Adding or subtracting quantities:</strong></td>
</tr>
<tr>
<td><strong>Less than 10</strong></td>
<td><strong>Less than 20</strong></td>
<td><strong>Less than 50</strong></td>
</tr>
<tr>
<td><strong>Less than 100</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>