## Number: Early Learning Progression

| Key Concept | Importance of Concept | Teaching and Learning <br> Points |
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| Pre-counting <br> The key focus in pre-counting is an <br> understanding of the concepts more, <br> less and the same and an <br> appreciation of how these are <br> related. Children at this stage <br> develop these concepts by <br> comparison and no counting is <br> involved. | This is important because these <br> concepts lay the foundation for <br> children to later develop an <br> understanding of the many <br> ways that numbers are related to <br> each other; for example five is <br> two more than three, and one <br> less than six. | Children often have some <br> concept of more; this needs to <br> be extended and refined. Less <br> is a more difficult concept and <br> understanding can be <br> developed by pairing the terms <br> less and more to help develop <br> an understanding of the <br> relationship between the two. |
| One-to-one counting <br> The key focus of one-to-one <br> counting is developing children's <br> ability to count. Two skills are <br> needed: | Counting is important because <br> the meaning attached to <br> counting is the key conceptual <br> idea on which all other number <br> concepts are based. | Children have often learnt the <br> counting sequence as a rote <br> procedure. They need to learn <br> the meaning of counting by <br> using counting skills in a <br> variety of meaningful <br> situations. Start with counting |
| emall numbers, up to five |  |  |$|$| ability to say the standard list |
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| of counting words in order |
| ability to match each spoken |
| number with one and only |
| one object |$\quad$| objects. |
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| Children will need to use materials such as buttons, plastic animals, or whatever they may be playing with, to keep track of their counting. For example, children will combine 3 and 2 by first counting out " $1,2,3$ " for the first set, then " 1,2 " for the second set, then physically join the sets and counting them all "1,2,3,4,5." | understand and appreciate counting as more than a rote procedure. <br> Using counting to combine and separate groups of objects develops children's understanding of the operations of addition and subtraction. Children come to understand that when groups are combined | and then ten items. |
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| Counting on to solve number problems <br> Once children understand cardinality and the forward and backward number sequences they can count on or back to solve number problems. For example 5 and 3 can be added by counting on from the largest number: " $5 \ldots . . .6,7,8$ ". | groups are separated the count gets smaller. | Encourage children to count on to solve number problems by taking the focus away from counting the items in the first set. Use comments which encourage children to count on from the largest number. |

