| Nursery - Mathematics |  |  |  | Activities and Opportunities |
| :---: | :---: | :---: | :---: | :---: |
|  | What we are learning: <br> (Development Matters) | What a child might be doing: (Birth to 5 Matters) | Vocabulary: |  |
| $\begin{aligned} & \underline{n} \\ & \\ & \\ & \end{aligned}$ | Baseline | - |  | - |
|  | Counting <br> Reciting numbers up to 3 . <br> Say one number for each item in order: 1, 2, 3 | May enjoy <br> counting <br> verbally. <br> Points or <br> touches (tags <br> each item) <br> saying one <br> number for <br> each item. <br> Use the stable order <br> of 1, 2, 3 <br> Uses some <br> number <br> names and <br> number <br> language <br> within play | One, two, three | - How many play people are in the sandpit? How many cars have we got in the garage? <br> - Counting things of different sizes |
|  | Mark Making Experiment with their own symbols and marks. | Explores using a range of their own marks and signs to which they ascribe mathematica I meanings. | One, two, three, lines, dots |  |
|  | Shape <br> Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. | Chooses items based on their shape which are appropriate for the child's purpose. | Flat, pointy, rolly, brick, round | Children need opportunities to construct and create things that represent objects in their environment. As they do this, they should start to notice shape properties of the object that they want to represent: <br> - Stories as a prompt for |


|  |  |  | $\begin{array}{l}\text { creating } \\ \text { representations } \\ \text { e.g. building a } \\ \text { house for the }\end{array}$ |
| :--- | :--- | :--- | :--- |
| three bears |  |  |  |\(\left.] \begin{array}{l}Making pictures \\

with found \\
materials, as \\
well as\end{array}\right\}\)

$\left.\begin{array}{|l|l|l|l|}\hline & \begin{array}{l}\text { Problem solving } \\ \text { and Composition } \\ \text { of Numbers } \\ \text { Solve real world } \\ \text { mathematical } \\ \text { problems with } \\ \text { numbers up to 2. }\end{array} & \begin{array}{l}\text { Through play } \\ \text { and } \\ \text { exploration, } \\ \text { beginning to } \\ \text { learn that } \\ \text { numbers are } \\ \text { made up } \\ \text { (composed) } \\ \text { of smaller } \\ \text { numbers. } \\ \text { one, put them } \\ \text { together, how } \\ \text { many? }\end{array} & \begin{array}{l}\text { - }\end{array} \\ \begin{array}{ll}\text { Encourage } \\ \text { children to } \\ \text { make }\end{array} \\ \text { arrangements } \\ \text { with 2; talking } \\ \text { about what they } \\ \text { see }\end{array}\right]$
$\left.\begin{array}{|l|l|l|l|}\hline \begin{array}{l}\text { Subitising } \\ \text { Develop fast } \\ \text { recognition of up } \\ \text { to 3/4 objects } \\ \text { without having to } \\ \text { count them } \\ \text { individually }\end{array} & \begin{array}{l}\text { Subitises 1, 2, } \\ \text { 3/4 objects } \\ \text { (without } \\ \text { counting). }\end{array} & \begin{array}{l}\text { One, two, three, } \\ \text { four, all of them }\end{array} & \begin{array}{l}\text { Children need } \\ \text { opportunities to: } 1 . \\ \text { See regular } \\ \text { arrangements of small } \\ \text { quantities, e.g. a dice }\end{array} \\ \text { face, structured } \\ \text { manipulatives, etc., and } \\ \text { be encouraged to say } \\ \text { the quantity } \\ \text { represented } \\ \text { 2. recognise small } \\ \text { amounts when they are }\end{array}\right\}$



|  |  |  |  | longer/shorter than this one?" |
| :---: | :---: | :---: | :---: | :---: |
|  | Problem solving and Composition of Numbers Solve real world mathematical problems with numbers up to 3 . | Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers. <br> Beginning to use understandin g of number to solve practical problems in play and meaningful activities. <br> Separates a group of 3 objects in different ways, beginning to recognise that the total is still the same. | One, two, three, one \& two more, two \& one more, put them together, how many? Total | - Encourage children to make arrangements with 3 ; ensuring talking about the different arrangements |
|  | Counting Reciting numbers up to 10 . <br> Cardinal Principle know that the last number reached when counting a small set of objects tells you how many there are in total | May enjoy counting verbally as far as they can go. <br> Counts up to and beyond 5 items recognising that the last number said represents | One, two, three, four, five, six, seven, eight, nine, ten <br> One after the other, total, how many? |  |

$\left.\begin{array}{|l|l|l|l|}\hline & \begin{array}{l}\text { the total } \\ \text { counted so } \\ \text { far. } \\ \text { Begins to } \\ \text { recognise } \\ \text { numerals up } \\ \text { to } 10 \text { and } \\ \text { may show } \\ \text { fascination } \\ \text { with large } \\ \text { numbers. }\end{array} & & \\ \hline \begin{array}{ll}\text { Subitises 1, 2, }\end{array} & & \\ \hline \begin{array}{l}\text { Subitising } \\ \text { Develop fast } \\ \text { recognition of up } \\ \text { to 4/5 objects } \\ \text { without having to } \\ \text { count them } \\ \text { individually }\end{array} & \begin{array}{l}\text { 3, } \\ \text { (without } \\ \text { counting). }\end{array} & \begin{array}{l}\text { four, five, all of } \\ \text { them }\end{array} & \begin{array}{l}\text { Children need } \\ \text { opportunities to: 1. } \\ \text { See regular } \\ \text { arrangements of small } \\ \text { quantities, e.g. a dice } \\ \text { face, structured }\end{array} \\ \text { manipulatives, etc., and } \\ \text { be encouraged to say }\end{array}\right\}$


|  | Understand position through words alone using a sentence <br> Discuss routes and locations, using words like 'in front of' and 'behind' <br> Describe a familiar route | position and direction. <br> Discuss position in real contexts. Describe routes and give directions to each other. | "The bag is under the table" <br> In front of, behind, forwards, backwards, left, right <br> Along the road, go that way, straight on, turn, on that side, on the other side, wrong, way, right way | taking advantage of play in the outdoors to explore sequences of body movements (following obstacle course, directing a friend, etc.): <br> - Directing a simple robot or remotecontrolled toy vehicle along a route <br> - Directing each other as robots <br> - Acting out their own versions of well-known stories where characters negotiate routes and obstacles |
| :---: | :---: | :---: | :---: | :---: |
|  | Pattern <br> Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' ... | Joins in with simple patterns in sounds, objects, games and stories, dance and movement, predicting what comes next. <br> Recalls a sequence of events in everyday life and stories. | First, then, after, before, every day, evening, morning, afternoon, tomorrow, today, yesterday, next, next day |  |
|  | Measure <br> Make comparisons between objects relating to weight and capacity. | In meaningful contexts finds the heavier or lighter and | Heavier/ lighter, more/less full | - "Please can you pass me a ... that is heavier/lighter than this one?" |



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