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Class: kindergarten

Subject: Math

English Version

The model is an associative image which shows the comparison of some notion, process or phenomenon of science or mathematics with some every day or natural object, process or phenomenon.

Notion , process or phenomenon	Set
Definition or explanation	In mathematics, a set is a collection of distinct objects, considered as an object in its own right. For example, the numbers 2, 4, and 6 are distinct objects when considered separately, but when they are considered collectively they form a single set of size three, written $\{2,4,6\}$. Sets are one of the most fundamental concepts in mathematics
Model	 <p>Video activity is available on : https://www.youtube.com/watch?v=UVnp4FJHgv8</p>



<p>Description of the model</p>	<p>The concept of "set" is being introduced by the teacher. She simulates that a little bee needs help from the children in collecting the pollen. Therefore, the bee would like them to solve some of her tasks. One of them consists in finding all the identical objects and placing them on the blackboard, in the same circle i.e.all the purple tulips have to be identified and put together in the same set. The concept of "number" - i.e. "2" is represented through the two identical purple tulips.</p> <p>The concrete image of two tulips is now "translated" into a more abstract representation - the children are asked to draw as many lines as there are purple tulips. In this case, two</p> <p>The children are now introduced the "graphical" representation of numbers. They are asked to link the correct written number with the number of elements in a specific set. Here, the child associates the label "2" with the set containing two purple tulips.</p> <p>The concept of spatial left and right neighbours of a child who is being seated is being associated with the mathematical concept of the left and right neighbour of a number.</p> <p>The previous concept is being expanded as the children are asked to define the meaning of "increasing" counting - from lowest to highest. They are shown this by gesticulation, holding the hand low and then raising to a higher position.</p> <p>"Decreasing" counting is being explained as counting from the highest number to the lowest.</p> <p>The children are asked to demonstrate at the blackboard the "increasing" counting, from lowest to highest by indicating the numbers, while counting, from left to right.</p> <p>The children are asked to demonstrate at the blackboard the "decreasing" counting, from highest to lowest by indicating the numbers, while counting, from right to left.</p>
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