

Lesson Plan 12 Title: "Let's see what is around us"

Concept / Terminology / Topic to Teach: Tables, graphs

Class Goal(s)/Objectives: After gathering information, engineers use various visual representation tools in order to make the results of the data gathered more obvious. Today the children will do tables and graphs.

Required Materials: 2 gender neutral puppets, a card board to make the tables. Photos of the elements observed in the last class.

Setting: Classroom, Large group time, small group time.

Step-By-Step Procedures: During large group time you will start with revisiting what happened in the last classes (always using the puppets that are talking about it). Sam is going to tell Andy children observed many elements last time like (mention the ones observed by the children). Then make a table and a graph that will mention all the elements observed by the children and mark on the table how many of these have been observed, so that children will start getting a holistic visual representation of what is around them (see table and graph example bellow). Then ask them if these items observed could also be used in the other buildings children have been working on all this time, and prompt the children to come with other elements specific buildings might need.

Andy:

-Guys do you think people in a fire station would use buttons like that too? I wonder why!

-Do you think people would need pipes in a garage? Do we need water in the garage? I wonder why!)

You can keep the discussion as a large group or (depending on the number of the children) break it into the small group discussion.

Closure (Reflect Anticipatory Set): End the class by revisiting the list with the engineering features the children have identified in the building.

Assessment Based On Objectives: since this is a group discussion we are assessing group participation here. Children should have come up with identifying at least three different features they are can be used in three different buildings and justify why.

Possible Connections To Other Subjects: motor skills improvement, language (while discussing the elements in their sketches), reasoning, math/science (while constructing tables and graphs).

Examples of tables and graphs

buttons	x	x		
switches	x	x	x	x
pipes	x			

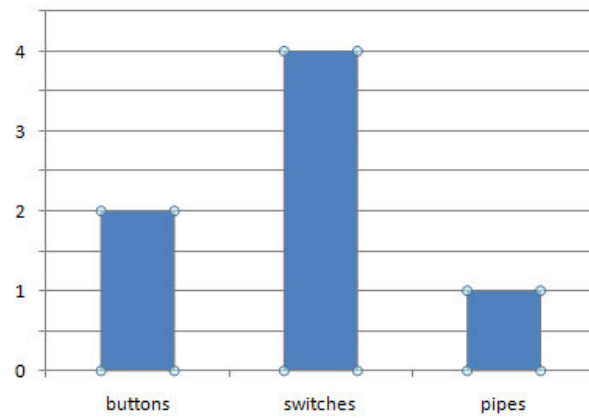


Image to be placed on the cardboard:

