

Lesson Plan 17 Title: "Let's search a little more"

Concept / Terminology / Topic to Teach: consulting, information gathering, communication, exchange of ideas

Class Goal(s)/Objectives: When coming closer to an end product and after having some more concrete ideas about the end product, engineers do a more detailed information gathering about particular elements of the design. Information gathering can include looking at books, online searching, discussing the issue with other experts in the field. When new ideas are on the table, engineers have to explain the new details to other members of their team and re-discuss the positives and negatives. Some days ago parents were asked to conduct research regarding the project with their children at home or in the outer space, and send the information with their children in class. Today children will present their findings.

Required Materials: 2 gender neutral puppets, hard paper, material that children have brought from home.

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

Step-By-Step Procedures: During large group time you will start with revisiting what the final goal is (i.e. building a school, a garage, or whatever the children have already decided in previous sessions. Andy can ask how many children brought information from home. According to this number split the children in smaller equal groups and ask the children to present to their friends their new information and ask them if they like or dislike the new ideas.

Plan For Independent Practice: In the small groups have the children present one idea to their friends. children can rotate so that no child will get to wait for long. Every time an idea gets discussed, write it on a paper. Then ask how many children think it is a good idea and why, and how many don't think it is a good idea and why. For every child that agrees make a + sign on the paper so that children at the end can have a more visual representation of things the liked the most.

Closure (Reflect Anticipatory Set): End the class by repeating all the new ideas and showing to the children which one was the most popular. Hang the most popular ideas discussed on the class wall (even better if pictures exist).

Assessment Based On Objectives: Every child should have brought up one new idea and explain why it is a good idea to the other children in the small group.

Possible Connections To Other Subjects: language and reasoning (while presenting the new ideas), science (when choices are getting discussed).