

Logic Lesson Notes:

This is actually three separate activities for primary school students. The first is "Picking Fruit."

Picking Fruit (part 1):

We will bring three boxes. One will be labeled with the picture of an apple, one with the picture of an orange, and one with a picture of both. We will also bring two apples and two oranges. The staff person will hide the boxes under the table (perhaps in a pillow case) and put the fruit in the boxes so that each box contains something different from its label.

Participants will be told that they can open one box, and then must state what is in each box. The staff member should not give any hints, but could ask them to think before they choose a box. After the participant chooses a box and removes a piece of fruit, the staff will ask the participant to identify what is in each other box, and ask them to explain why. The staff member will encourage, and praise the participants.

In fact it may be easier to use three paper bags. If the labels are on the table, each bag may be placed next to the label. We will have three sets of bags for each part.

Picking Fruit (part 2):

This is the same as part 1, except with different labels and different fruit.

Wearing hats (parts 1 and 2): We will bring hats as described on the hand out. Play the second version of the part 1 game first, then play the first version of the part 1 several times until the children "get it" then play the second version again. This can be done as soon as there are two students to play. After children have played the part 1 games with the two different scenarios they can move on to the part 2 games.

The standard solution to these "games" requires one to judge that a silent pause is equivalent to the answer, "I don't know." Judging the difference between a "thinking" pause and "don't know" pause is rather subtle. One way to avoid this issue is to ask the same question multiple times. E.G. for part 1 games ask the two students "do you know the color of your hat?" After both answer, ask "do you know the color of your hat?" again. This question may be asked three times in a row for the part 2 game.