



Understanding Instructions With AND-OR

Lesson Plan: Class 03 / ALG / 18



Overall goal of the lesson: Children understand AND/OR conditionals

- Does given input meet given conditional?
- Predict outcome given inputs and conditionals

Prior knowledge required: Simple conditional, familiarity with a card deck

Material Required:

Physical: A deck of cards

Electronic: PPT – Understanding Instructions with AND / OR conditionals

Procedure Summary:

1. Review conditionals
2. Play card games
3. Distribute the worksheet
4. Discuss worksheet

Procedure Details:

1. Review simple conditional – you may use your own examples
 - **Introduce what is meant by a conditional**
 - Spend time on this until they understand the idea of IF something is true, then something happens
 - Depending on the composition of the class, change the examples – e.g., if it is only girls in the class you cannot use the is-a-boy / is-a-girl conditionals
 - Slide 4 : allow the children to come up with their own examples
 - On slide 6 : they may answer for the last question: STUDENT IS A GIRL which is also ok
2. Introduce OR
 - Spend enough time on Slide 7 : emphasise that 'a brother' OR 'a sister' does not imply exactly one brother or exactly one sister
 - Explain that when you have two conditions with an OR -> either the first or the second or both can be satisfied for the whole conditional to be satisfied!
 - Slide 9 – allow children to come up with their own examples
3. Introduce AND
 - Spend enough time on Slide 11 : emphasise that in the case of AND both parts of the conditional must be satisfied for the conditional to be satisfied as against OR – where the conditional is satisfied if any one part is satisfied.
4. How to use IF ... ELSE – take more examples if one is not sufficient
5. Practice problems – give the children a chance to answer before showing them the answers!
6. **ACTIVITY WITH CARDS**

Take the deck. First, make sure everybody recognises suits and the difference between number cards and picture cards.

- Play the games on slide 16-17
 - Get the children to write the conditionals
 - Slide 18 is a team game – you can get team reps to pull cards for more excitement and you can keep score.
7. Recap
 8. Distribute & discuss worksheet