



Introduction To Sorting

Lesson Plan: Class 04 / ALG / 02



Overall goal of the lesson: Children understand Sorting

- Why alphabets and numbers are ordered?
- How to sort numbers?

Prior knowledge required: Children have understanding of Algorithms and loops

Material Required:

Physical: A deck of cards

Electronic:

Procedure Summary:

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

Procedure Details:

1. Review algorithms and looping
 - **Introduce what is meant by sorting**
 - Make children understand several examples of algorithms.
 - Introduce Ordering.
2. Go through the PPT up to the card activity
3. **ACTIVITY WITH CARDS**

Take the deck. Now separate a suit from deck and remove face cards.

 - Show children numbers arranged in order on the cards.
 - Ask a child to shuffle the cards.
 - Arrange shuffled cards on the desk
 - Ask Children how they will arrange it in order?
4. Draw two big rectangles on blackboard. Write the shuffled order of cards on blackboard in rectangle one. And start writing sorted order in the rectangle two.
5. Ask children to select the smallest card from Rectangle one, now place this number 1 card in Rectangle two. Erase Number1 from Rectangle 1 and ask for next smallest number and place it in Rectangle 2 next to Number 1. Repeat the same operation till Rectangle one is empty.
6. Now, ask children to arrange the cards on table in decreasing order (largest to smallest) by selecting largest number first. Now the cards are arranged in order 9,8,7,6,5,4,3,2
7. Now, pick 5 students randomly and ask them to say their roll numbers loud.
8. Now give class monitor the task of sorting these students in increasing order of their roll numbers following the method described above. Largest number first and then second largest and so on.
9. Discuss worksheet with students.