Sorting Activity

Lesson Date:  
Teacher(s):  
Duration: 15 - 25 minutes  
Age range: Kindergarten through 8th (adjustable)

Lesson Objectives:

1. Learn new concepts of sorting data/Numbers.
2. Problem Solving with peers.

Lesson Materials:

1. Number cards 1-99
2. Sheets of paper with a 1, 25, 50, 75, 100

Lesson Introduction:

1. There are many different ways that we can sort numbers.
   - Some quicker than others

Lesson Activity:

1. Hand out number cards randomly
   - “Don't show anyone your card till I say go”
2. Let them sort themselves.
3. Divide and Conquer
   - Place a 50 in the middle of the line. If you are higher than 50 go too it’s right, if your lower, go to its left
   - Repeat again after placing a 25, 50, and 75 on the floor.
4. Binary Sort
   - Starting with the left side you have to compare cards with your neighbor, the higher number moves right.
   - Repeat until fully sorted
Lesson Conclusion:

1. There are many ways we can sort numbers
2. Briefly explain why sorting numbers quickly is important
   - The faster we can sort numbers, the more quickly we can analyze the
   - Pull up example of a fun statistics example