Name(s)______ Period _____ Date

Activity Guide - Card Sorting



Objective

Develop steps to sort a row of cards, using the rules below

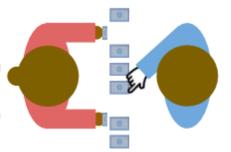
Tips

- Start with only 3 or 4 cards and work up to 8.
- Switch roles frequently.
- Practice with the cards face up first
- Test your work and even try to "break" your solution.
- Stick with it! There are many possible solutions. The point is to find yours!

Rules

Sorter

- Can pick up, put down, and swap cards in any order they wish.
- Shows cards to pointer without looking at them.
- 3. Only one card in each hand at a time.
- Cards go back into empty spots on the table.



Pointer

- When shown two cards can point to the bigger one.
- For a tie point to either.
- No other communication is allowed

Your Steps

free to draw pictur			

Share and Test

Present your steps to another group. Make sure both groups get a chance to share and test their ideas. Here's some tests to consider.

- Use different numbers of cards
- Cards are in reverse order
- Cards are already in order
- Cards are nearly in order

Iterate Based on your tests or ideas from another group, update your steps.
Processing Uses Algorithms Processing is anything a computer does to turn input information into output information. Humans can process information, but usually they're making lots of assumptions or mental leaps to do it. When computers process information, they use algorithms, or sets of instructions, that will always turn an input into a desired output. The steps you just created are an algorithm to sort cards.
Reflection
What step of the problem-solving process did you think was most important in this activity?
2. Why?
3. Why would someone create an algorithm to process information if they already know how they would do it by hand?