

Name(s) \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

# Activity Guide - Card Sorting



## Card Sorting Challenge 1

### Rules

- Absolutely no talking during the challenge
- The goal is to sort the cards as quickly as possible
- When you are done, a team member should say "Done!" and the teacher will give the team a time

What order will your team put the cards in?

What is your team's strategy?

**Trial 1:** How long did it take you? \_\_\_\_\_

Did you sort the cards correctly? \_\_\_\_\_

How will you improve your strategy for the second trial?

**Trial 2:** How long did it take you? \_\_\_\_\_

Did you sort the cards correctly? \_\_\_\_\_

### Reflection

What are the input, output, storage, and processing in this activity?

How is your approach to solving this problem different from how you think a computer might have to approach it?

# Activity Guide - Card Sorting



## Card Sorting Challenge 2

### Rules

- Absolutely no talking during the challenge
- The goal is to sort the cards as quickly as possible
- Use only the 2 of Hearts through the 9 of Hearts (or another suit of your choice)
- You and your partner should face each other with the cards between you
- One of you is the Sorter, and may touch and move the cards, but may not look at them
- The other is the Pointer, who may only point to the higher card
- The Sorter can only show the Pointer two cards at a time
- When you are done, the Sorter should say "Done!" and the teacher will give the team a time

What is your team's strategy?

**Trial 1:** How long did it take you? \_\_\_\_\_

Did you sort the cards correctly? \_\_\_\_\_

How will you improve your strategy for the second trial?

**Trial 2:** How long did it take you? \_\_\_\_\_

Did you sort the cards correctly? \_\_\_\_\_

### Reflection

How did your problem solving process need to change in order to solve the card sorting problems with the constraints placed on the Sorter and the Pointer?

Could you have used a different strategy and achieved the same result? What might make one strategy better than another?