

What Is It Like to be a Robot?

Put yourself in a robot's shoes and tie your partner's shoes.

What You Need

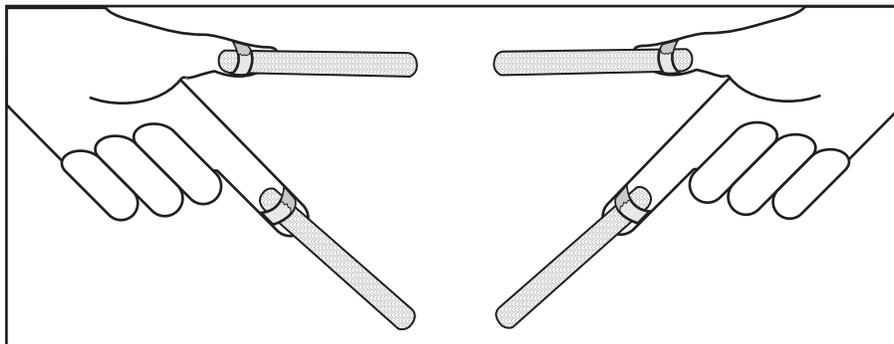
shoes with laces
blindfold
ear plugs
heavy gloves
tongue depressors
masking tape
stopwatch or timer that counts in seconds

What Do You Think Will Happen?

- 1. Predict.** How long will it take to tie your partner's shoes
 - a) with your bare hands?
 - b) when you wear gloves?
 - c) with sticks tied to your fingers?
- 2.** Record your predictions in the table.

What to Do

- 3.** Have your partner sit in front of you with untied shoelaces. Put on the blindfold and ear plugs.
- 4.** Time how long it takes to tie both shoes.
- 5.** Untie the shoes. Put on heavy gloves, and try again.
- 6.** Untie the shoes. Have your partner tape the sticks to your thumbs and fingers, and try again.



Name: _____ Date: _____

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What Did You Observe?

7. Record your predictions and results in the table.

Tying Shoelaces	Time You Predict	Time it Took
bare hands		
heavy gloves		
sticks tied to fingers		

What Did You Learn?

8. a) How did wearing gloves affect your ability to tie the laces?

b) What about when you wore sticks?

9. a) You have nerves in your fingers to help you feel things. Do you think a robot could tie shoes? YES NO

b) What would help a robot do this task?
