

## Worksheet: Hello! My Name is...

Introduction to Mobile Robotics > Anytime Activities > Hello! My Name is...

This worksheet is provided for reference only. Be sure that you follow the steps in the online directions, and answer the questions at the appropriate times. Fill out all your answers on a separate sheet of paper.

### Construct: Add Sounds



#### Observations:

1. How can you use sounds to convey a message without words?
2. Can you name any other robots that communicate with non-verbal sounds?

### Construct: Add Images



#### Answer the following:

3. How might you make your robot communicate the following emotions using the display options?
  - i. Happiness
  - ii. Sadness
  - iii. Frustration
  - iv. Adventurousness
  - v. Impatience

### Contemplate



4. What are three reasons why you should give your robot a personality?
5. What other changes or additions could you make to your robot's appearance or behavior to give it a distinct personality that can help people understand how to interact with it?
6. Can you name some other computerized or mechanical products that use display and/or sound outputs to communicate with the user? Describe how they do this.

## Continue: Testing and Feedback

Connect

Construct

Contemplate

Continue

7. Choose an emotion to give to your robot.
- Write a short 2 to 5 block program that attempts to convey that emotion. You should make good use of sound, display, appearance and other robot behaviors to get your message across.
  - Find at least three test subjects who are not part of your team.
  - Without telling them the emotion you intended, run the program for each person, and ask them what emotion the robot is trying to convey. Write down their responses in the chart and rate how close they are to the emotion you intended.
  - How close were the responses to the emotion you intended?
  - Were there any things that people didn't understand at all, or did they generally get the idea?

Fill in the table below with the response you get from each person.

I want my robot to show _____ . (emotion)		Thought emotion was <b>Opposite</b> What I intended	Thought emotion was <b>Dissimilar to</b> What I intended	Thought emotion was <b>Similar to</b> What I intended	Thought emotion was <b>Exactly the same as</b> what I intended
Person's Name	What the person thought the emotion was				
(check one)					
1)					
2)					
3)					

8. What is the purpose of testing in the design process?