

# Picture Sorting Task (PST)

## Overview

The goal of this task is to see how children construe the study robot relative to other entities. They are asked to sort a set of pictures based on the person-like qualities of the entities in the pictures.

## Pictures

*Cat, Frog, Baby, Tega, Baymax / Wall-E / R2D2, Robot Arm, Teddy Bear, Computer*

## Instructions

Do you know this robot? *Hold up Wall-E. If yes, use Wall-E.*

*If no:*

Do you know this robot? *Hold up Baymax. If yes, use Baymax.*

*If no:*

Do you know this robot? *Hold up R2D2. If yes, use R2D2.*

*If no, use Wall-E.*

Here are some pictures of different things. Some of them are kind of like a person, like your mom or your teacher, and some aren't very much like a person at all.

Can you put each picture in the spot where it belongs? Put the things that are like a person over here (*point toward human adult*), and the things that aren't like a person over here (*point toward table*).

Remember, we want to know where you think each picture belongs. Whatever you think, that is the right answer.

*Prompt for explanations of sorting order:*

- Can you tell me why you're putting that one there?
- What makes that one like a person?

## Coding

*Record the position of each of the sorted pictures on the answer sheet, with 1 = Human adult and 10 = Table. Look at the positions of each entity relative to the human adult as well as relative to the study robot.*

## Citation

You are free to adapt or use this measure. If you do, please cite the following paper:

Kory-Westlund, J.M., & Breazeal, C. (2019). Assessing Children's Perceptions and Acceptance of A Social Robot. *Proceedings of the 18th ACM Interaction Design and Children Conference (IDC'19)*. ACM: New York, NY.

**Answer sheet (or put in a spreadsheet):**

1. HUMAN

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. TABLE

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