

Robotics Badges: *Programming Robots 2***Robot Task Sheet**

Your team has been hired to design a robot to perform the task below. You can modify or add details to the task if needed. Then write down a brief set of steps the robot will need to follow to carry out the task.

If you have time, test your instructions by having one team member pretend to be the robot and act out performing the task. Another team member can call out commands for the robot to follow. Take notes about any problems you find so you can go back and fix them.

Save this finished Robot Task Sheet and list of instructions—they will be used later in the meeting.

Want More Challenge? Try This!

As you design your robot, answer these questions:

- What does your robot do?
- What does it look like?
- How is it powered?
- How does it move?
- What sensors does it use?
- How is it controlled?

Your Robot Task: Sort building blocks or other toys or objects into different bins by size or color.

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Your Robot Task: Change the batteries in a flashlight or other device.

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Your Robot Task: Set out items of clothing for a person to wear when the weather is expected to change.

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Your Robot Task: Assemble a bookcase from a furniture store.

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Your Robot Task: Change a flat tire on a car or bicycle.

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Your Robot Task: Prepare a salad or other meal.

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Your Robot Task: Pack up a fragile gift item to send across the country.

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Your Robot Task: Feed or groom a dog or other pet

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Your Robot Task: Paint a room.