

# Design Your Robot - Activity Worksheet

## Step 1: Choose Your Robot's Purpose

My robot is designed to: \_\_\_\_\_

## Step 2: Sketch Your Robot

A large, empty rectangular box with a thin black border, intended for a student to draw a sketch of their robot. The box occupies the lower half of the worksheet.

## Step 3: Identify and Explain Components

### INPUT Components (Sensing)

Component	Purpose	Why it's necessary

### PROCESSING Components (Thinking)

Component	Purpose	Why it's necessary

### OUTPUT Components (Acting)

Component	Purpose	Why it's necessary

## Step 4: Reflection

How does your robot use the input-processing-output model to accomplish its task?

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What challenges might your robot face, and how could you improve its design?

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