

# **Zara's Robot Friend - Activity Worksheets**

10 Printable Worksheets for Grades K-3

Dallas W. Thompson  
[www.dallaswthompson.com](http://www.dallaswthompson.com)

## Worksheet 1: Robot Parts

Draw a robot and label its parts:

- \* Sensors (eyes, ears)
- \* Processor (brain)
- \* Actuators (arms, legs)
- \* Power source (battery)

What does each part do?

## Worksheet 2: Design Your Own Robot

Imagine you could build any robot! Draw it here and answer:

1. What is your robot's name?
2. What job does it do?
3. What special features does it have?
4. What materials would you use to build it?

## Worksheet 3: Robot or Not Robot?

Circle the items that are robots:

- \* Vacuum cleaner
- \* Robotic vacuum (Roomba)
- \* Toy car
- \* Self-driving car
- \* Calculator
- \* Computer
- \* Traffic light
- \* Automatic door

Explain: What makes something a robot?

## Worksheet 4: Problem Solving

Zara faced many problems while building her robot. Think of a problem you have and use the engineering design process:

1. ASK: What is the problem?
2. IMAGINE: What are 3 possible solutions?
3. PLAN: Draw your best solution
4. CREATE: What materials do you need?
5. TEST: How will you know if it works?
6. IMPROVE: How could you make it better?

## Worksheet 5: Sequencing

Put these steps in order (1-6):

- \_\_\_ Test the robot
- \_\_\_ Think of an idea
- \_\_\_ Build the robot
- \_\_\_ Make improvements
- \_\_\_ Draw a plan
- \_\_\_ Gather materials

## Worksheet 6: Robot Jobs

Match each robot to its job:

- \* Mars Rover - Explores space
- \* Surgical Robot - Helps doctors
- \* Factory Robot - Makes cars
- \* Delivery Drone - Brings packages
- \* Robotic Arm - Picks up objects

What other jobs could robots do?

## Worksheet 7: Coding Basics

Robots follow instructions called code. Write step-by-step instructions to make a peanut butter sandwich:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

## Worksheet 8: Robot Feelings

In the story, Zara's robot becomes her friend. Can robots have feelings? Write your opinion and explain why.

## Worksheet 9: STEM Careers

Research one of these careers and draw a picture:

- \* Robotics Engineer
- \* Computer Programmer
- \* Mechanical Engineer
- \* Electrical Engineer

What do they do? What do you need to learn?

## Worksheet 10: Reflection

After reading 'Zara's Robot Friend':

1. What was your favorite part?
2. What did you learn about robots?
3. Would you like to build a robot? Why?
4. What would you name your robot?

---

For more resources, visit [www.dallaswthompson.com](http://www.dallaswthompson.com)