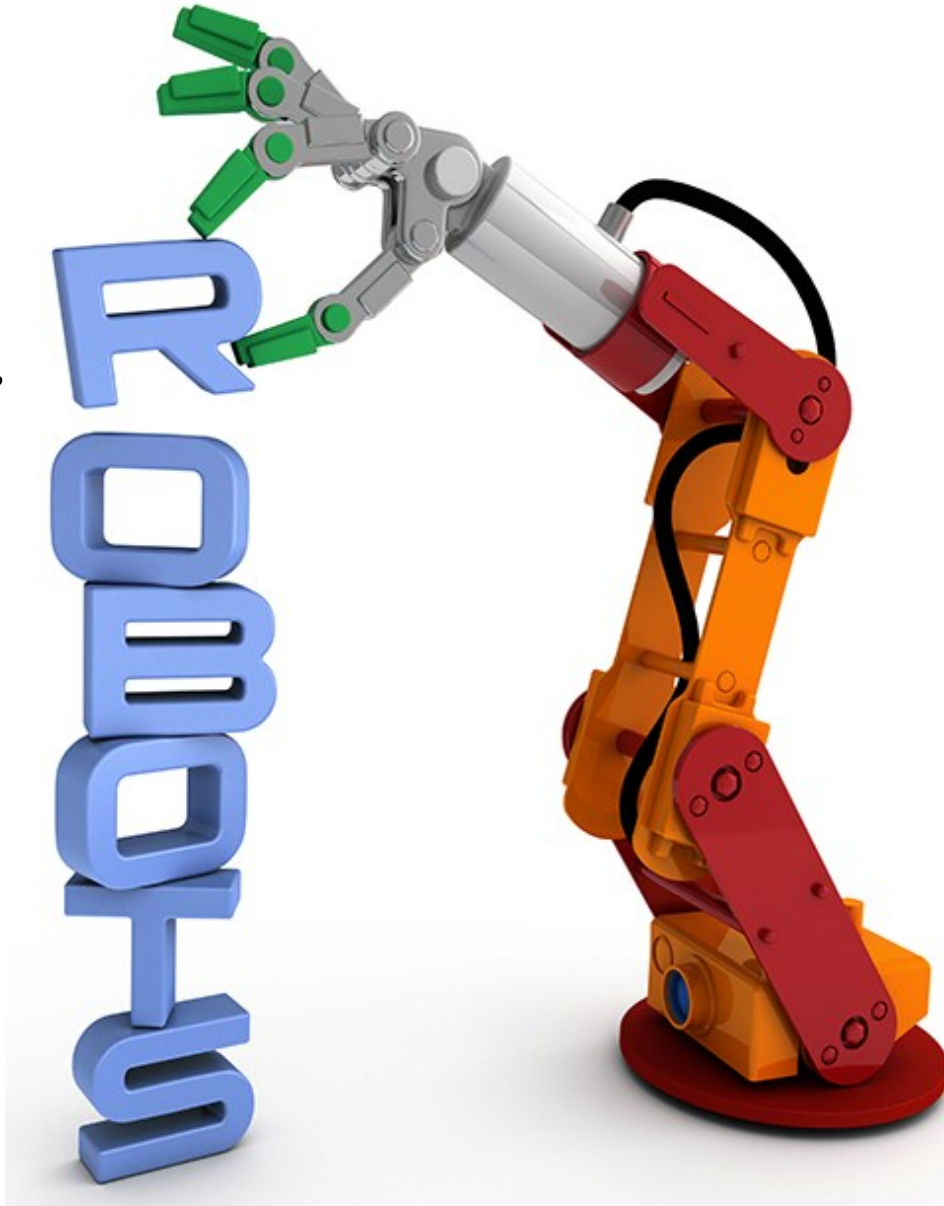


# Mini 4-H

Cass County



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**Name** \_\_\_\_\_

**Year 20** \_\_\_\_\_

**Club** \_\_\_\_\_

Mini 4-H Robotic Project: Created 12/2018. Materials adopted from Wabash County  
Revised 01/2023, 01/2024, 11/2025

## **Mini 4-H Robotics**

Working with robotics can be fun.

It lets you use your hands to create something useful or something for pleasure.  
It gives you a good feeling to know that something you have made is useful.

Mini 4-H lets you learn some robotics skills as you put together a project from a kit.

### **Requirements**

1. Do the activities in the manual for the grade you are in.
  - a. First Grade: “Robot Friends”, “Connect the Dots”, and “Build a Robot.”
  - b. Second Grade: “Eco-Friendly Robot”, “All-About-Me Robot”, and “Construct a Robot.”
2. Obtain/Purchase a kit that is available at the Extension Office. A different one is available each year in this project.
  - a. Read and follow instructions carefully.
3. Exhibit one item at the 4-H Fair.
4. Leave space in the lower right-hand corner for the exhibit card that the Purdue Extension staff will provide.
5. Your exhibit must be turned in at the Community Center on the Saturday designated in the 4-H Handbook from 7:30 - 9 a.m.

### **Exhibit Options:**

In this project, you should obtain/purchase a grade-specific kit from the Extension Office. With the help of an adult, assemble the kit. Kits are available at the Extension Office.

- a) First Grade: Tin Can Robot and record sheet
- b) Second Grade: Solar Robot and record sheet
- c) If you choose not to obtain a kit, exhibit one of your activity pages from your manual and your record sheet.

We hope you enjoy working with your Mini 4-H robotics project this year. Keep up your enthusiasm, and when you're in the 3<sup>rd</sup> grade, you can join in more fun by becoming a member of 4-H and enrolling in other projects.

If you have any questions or problems with your Mini 4-H project, call or stop in the Extension Office (8-4 M-F). Our phone number is 574-753-7750, and our email [cassces@purdue.edu](mailto:cassces@purdue.edu).

### **The 4-H pledge**

A pledge is a promise to yourself and the people around you.

I pledge my head  to clearer thinking.

My heart  to greater loyalty

My hands  to larger service

My health  to better living

For My Club, My Community, My Country, and My World

**The 4-H motto is “to make the best better.”**

When making your Robotics project, you will use a kit. Ask a grown-up to help you and always use safety habits.

### **Kits**

You can buy your robotics kit at the Extension Office. There will be a kit for each grade shown below.

1. Read the instructions with the kit so you know how to put it together properly.
2. Bring your finished project to the 4-H Fair with your record sheet.



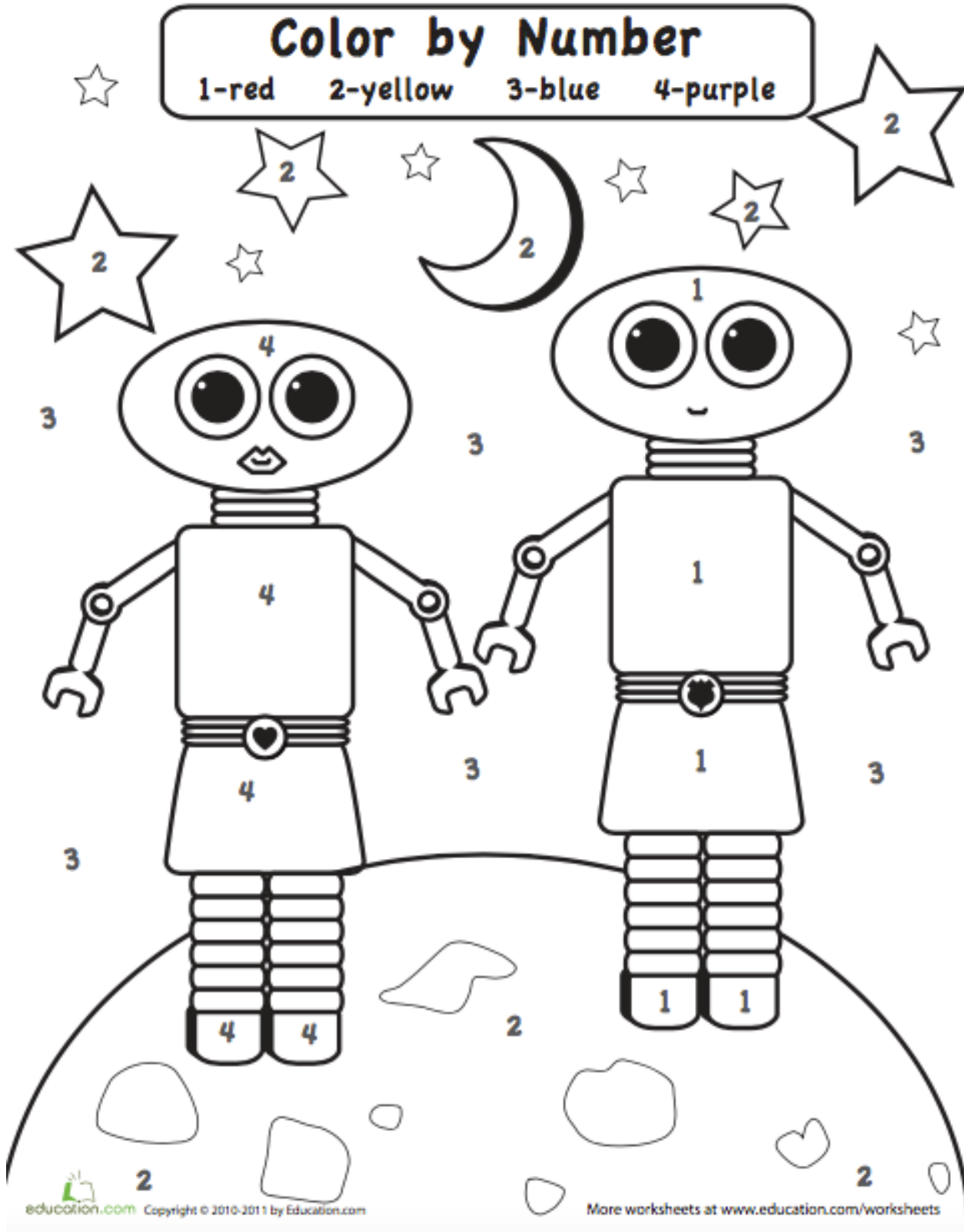
First Grade:  
Tin Can Robot



Second Grade:  
Solar Robot

# First Grade Activity: Robot Friends

Use red, yellow, blue, and purple crayons or colored pencils to complete the picture. Show a family member your masterpiece!

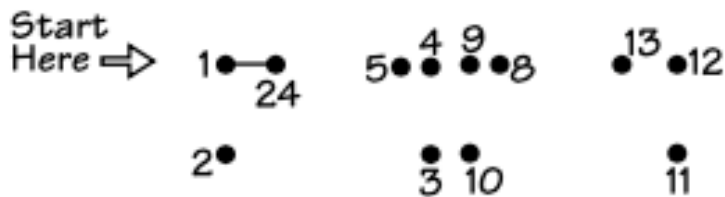
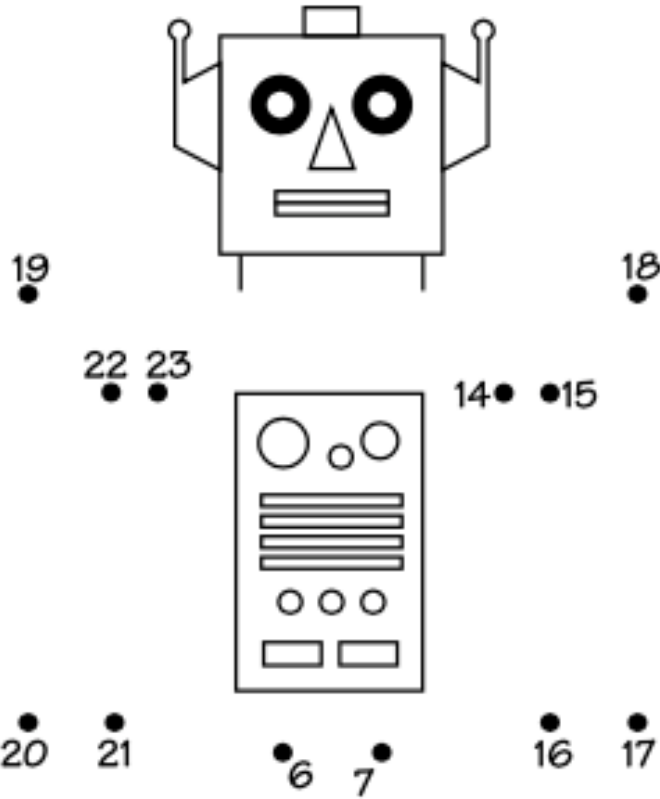


# First Grade Activity: Connect the dots

Connect the dots to complete the picture!

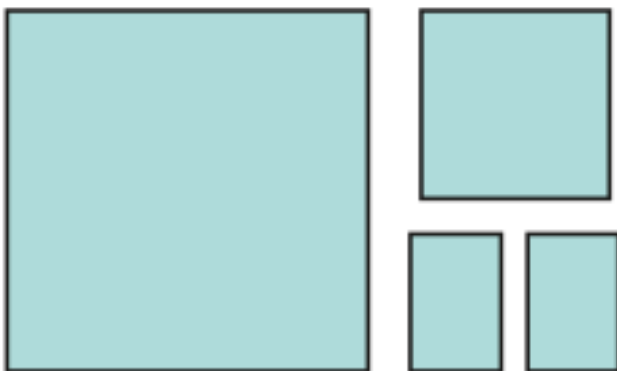
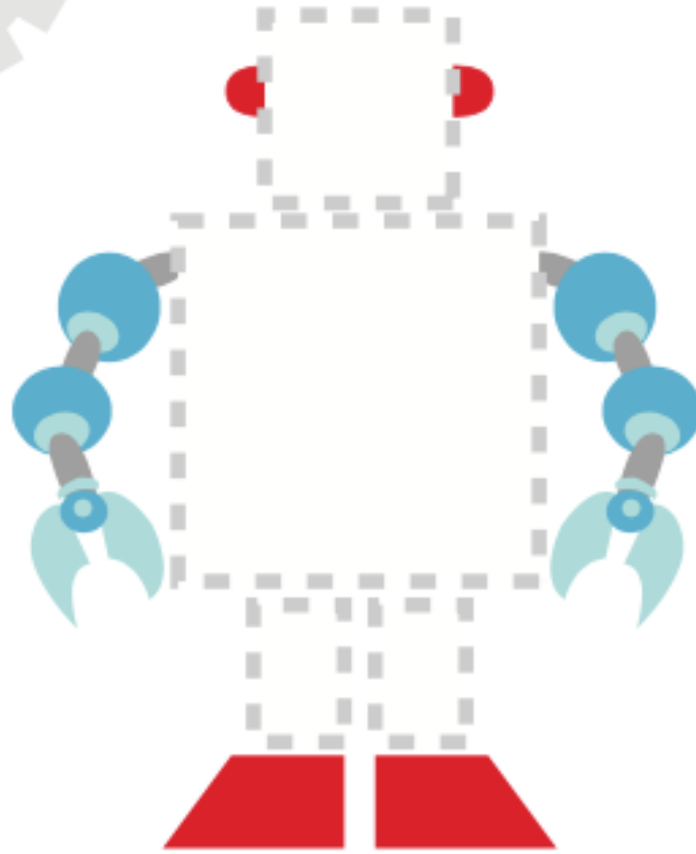


In the future, basic tasks may be automated. Can you connect the dots to find the machine that will perform these tasks? Color it brightly when you find it.



# First Grade Activity: Build a Robot

Cut, draw, and glue to build your robot!



First, cut off the bottom part of the page along the dotted line. Then, ✂ cut out the shapes and glue them on the picture above to build a funky robot! Don't forget to draw a face. Hang your robot in a special place.

## Second Grade Activity: Eco-friendly Robot

Use crayons, colored pencils, markers, or any other art supplies to color your robot. Then write a story about your robot. Show a family member your finished picture!



Write a story below:

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Note: More worksheets at [www.education.com/worksheets](http://www.education.com/worksheets)

# Second Grade Activity: All-About-Me Robot

Use colored pencils, crayons, markers, or any other art supplies to decorate your robot. Fill out the information about yourself.

## ALL-ABOUT-ME ROBOT

**MY NAME IS:**  
\_\_\_\_\_  
Write your name here

**I AM SPECIAL BECAUSE:**

**FUN FACTS ABOUT ME**

- ⚙️ MY TEACHER IS: \_\_\_\_\_
- ⚙️ MY BIRTHDAY IS: \_\_\_\_\_
- ⚙️ THE MEMBERS OF MY FAMILY ARE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- ⚙️ WHEN I GROW UP, I WANT TO BE: \_\_\_\_\_  
\_\_\_\_\_

**I HELP OTHERS BY:**

**FAVORITE COLOR:**

**SOMETHING I LIKE TO DO AT SCHOOL IS:**

**SOMETHING I LIKE TO DO AT HOME IS:**

**FAVORITE FOOD:**

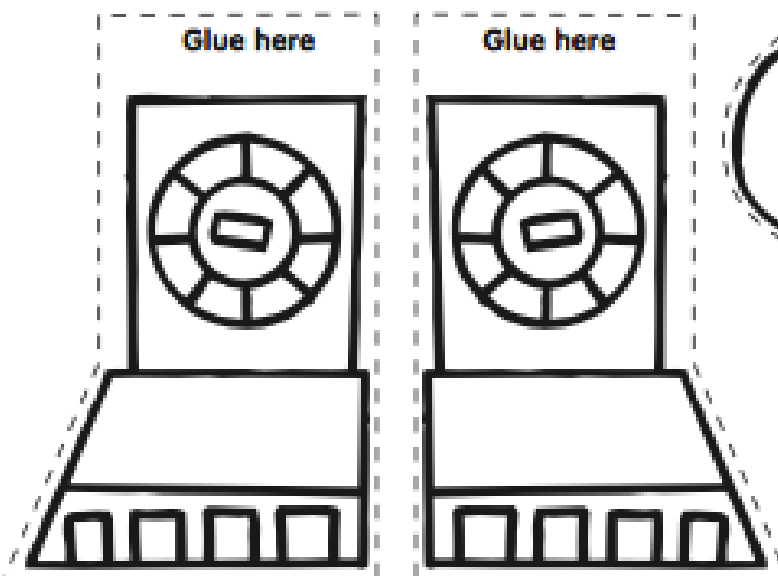
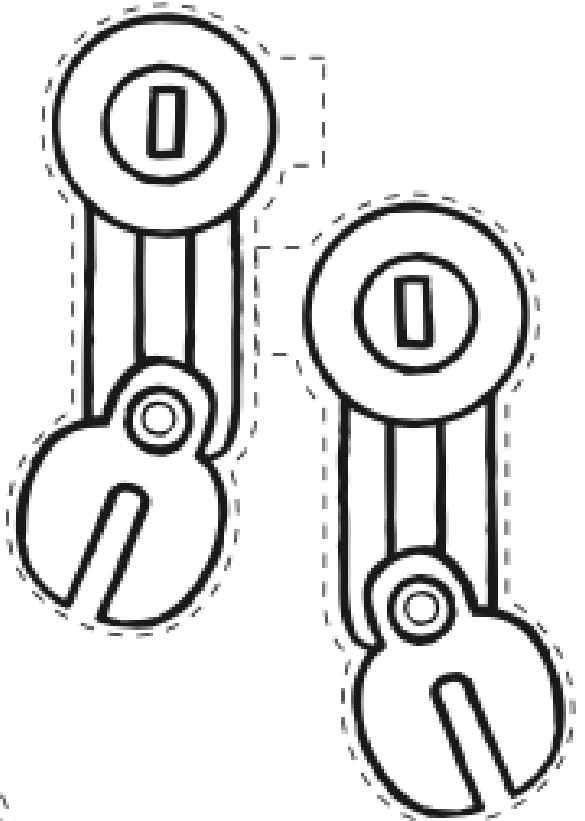
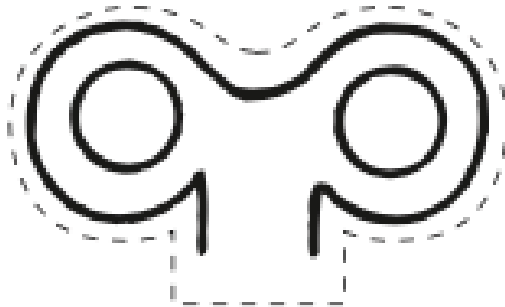
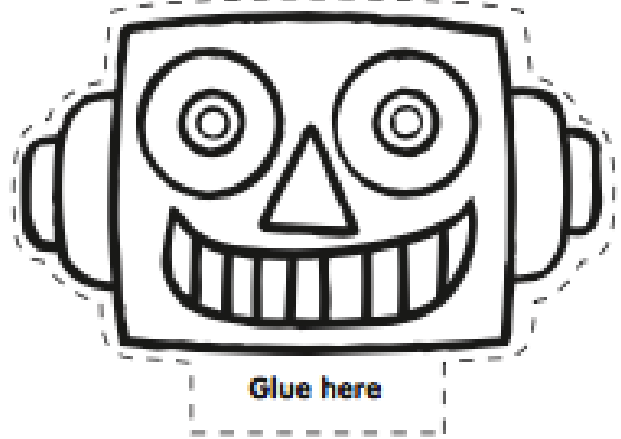
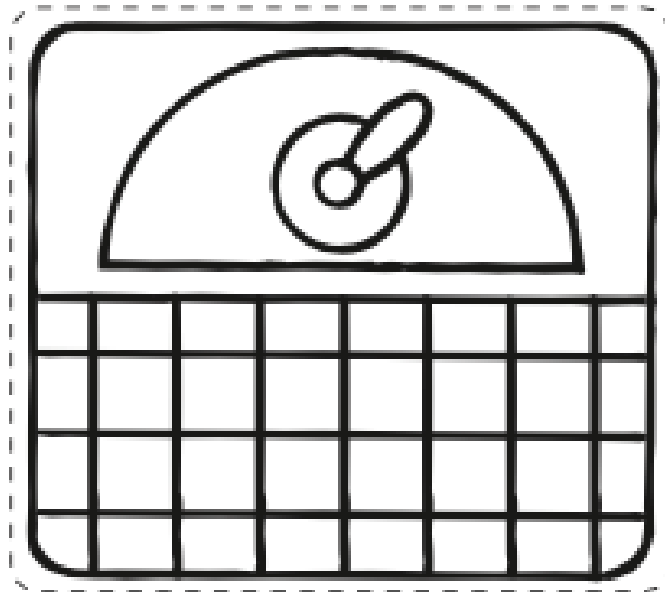
**FAVORITE ANIMAL:**

**FAVORITE BOOK:**

Draw or paste a picture of your face here.

## Second Grade Activity: Construct a Robot

First, color the robot, then cut him out, and glue him together!



# MINI 4-H ROBOTICS RECORD SHEET

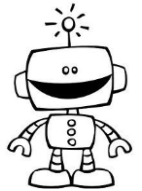


EXHIBIT YOUR PROJECT OR ONE OF THE ACTIVITY PAGES. FILL OUT THIS MINI 4-H ROBOTICS RECORD SHEET AND BRING IT WITH YOUR EXHIBIT TO THE 4-H FAIR. ATTACH YOUR GREEN MINI 4-H EXHIBIT LABEL TO THE BOTTOM RIGHT-HAND CORNER OF YOUR PAGE OR PROJECT.

NAME \_\_\_\_\_ GRADE IN SCHOOL \_\_\_\_\_

YEAR IN MINI 4-H ROBOTICS PROJECT (circle) 1st or 2nd

CLUB ATTENDED \_\_\_\_\_

WHAT DID YOU LEARN MOST FROM YOUR MINI 4-H ROBOTICS PROJECT?

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WHO HELPED YOU WITH THIS PROJECT? \_\_\_\_\_

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DID YOU HAVE ANY PROBLEMS WITH YOUR MINI 4-H ROBOTICS ACTIVITY(S)?

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WHAT WAS THE MOST FUN PART OF DOING THIS PROJECT?

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Leader Signature \_\_\_\_\_ Date \_\_\_\_\_



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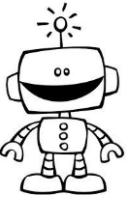


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