



# ROBOTICS

CUB SCOUTS  
ELEMENTARY SCHOOLERS

Through live interactions with NASA engineers, exploring the LaunchPad, and building your own robot, complete this worksheet to demonstrate your knowledge of robotics. This worksheet will not be turned in and for your own use.

## WHAT IS A ROBOT?

List six tasks performed by robots

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

**The jobs that robots do usually fall into four categories: dangerous, dirty, dull, and difficult.**

Choose one of the four categories of the jobs that robots do. Then, with the help of a caring adult, research one specific robot that performs those jobs. Create a visual presentation of what you have learned and share it with your family. **(see more on the next page)**

**Robot task categories (circle one)**

Dangerous

Dirty

Dull

Difficult

# ROBOTICS (CONTINUED)

Robot Name = \_\_\_\_\_

Three things you learned about the robot you researched

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## BUILDING ROBOTS

**Build a robot hand.** See instructions in The Lab and use the next page for a printable hand.

How is the robot hand **similar** to a human hand?

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How is the robot hand **different** from a human hand?

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With the help of your parent or another adult, **build a robot!**  
If you purchased a robotics kit from our store, you're all set! If not, try building a robot out of LEGOS or K'Nex or other items you might have at home or you can buy a robot kit.

What is the purpose of your robot?

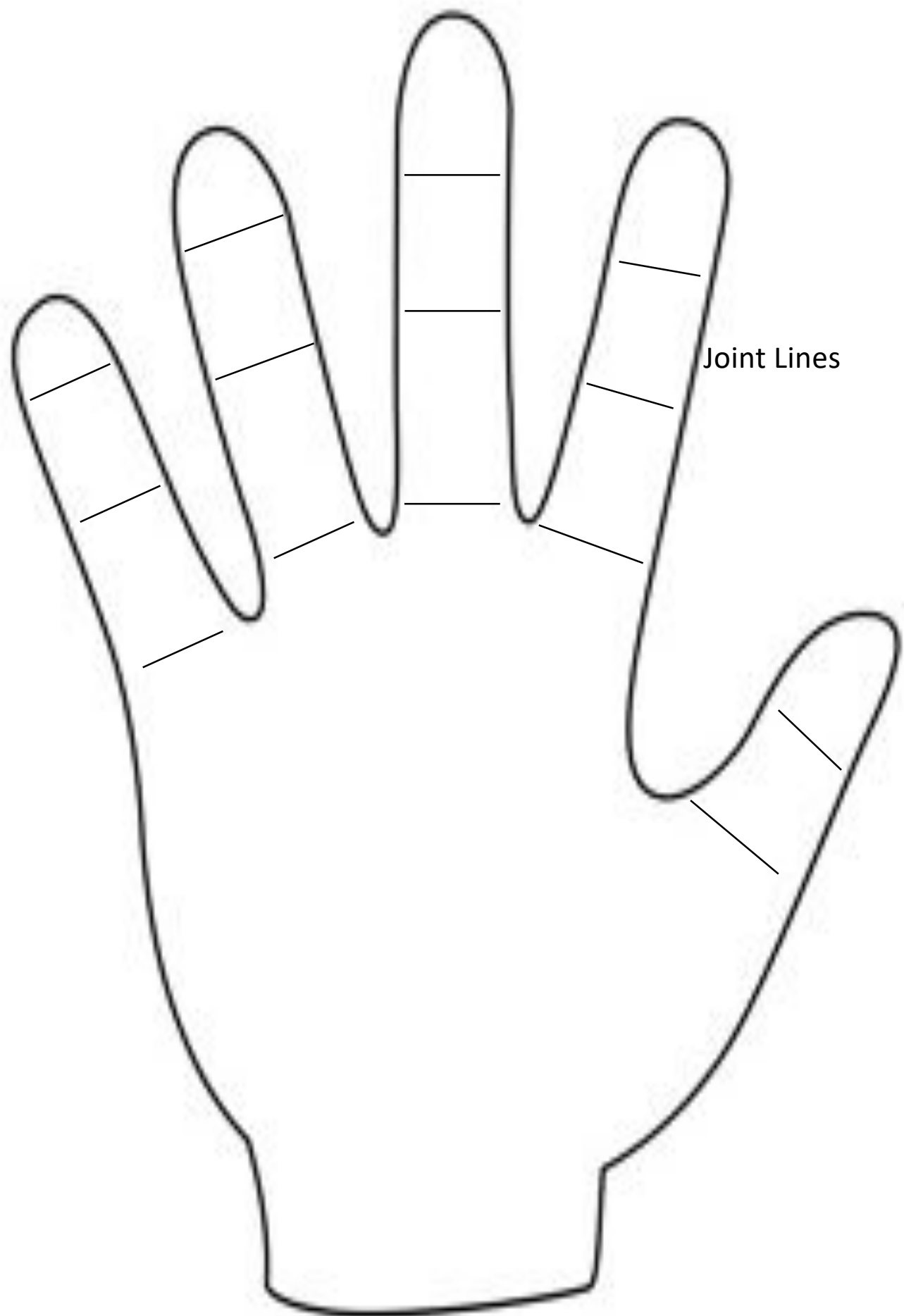
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What improvements could you make to your robot?

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Joint Lines