

STEAM in the Classroom

SCIENCE-TECHNOLOGY-ENGINEERING-AGRICULTURE-ART-MATH

ROBOTIC HAND

For this challenge/activity you will need:

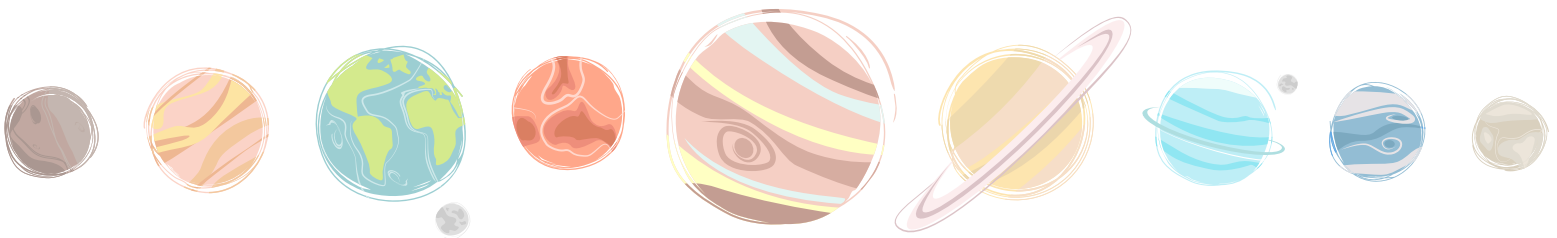
- 5 Straws
- Tape
- String
- Paper Hand



Introduction:

For the month of March, we will be exploring contributions to STEM by historical women in honor of Women's History Month. Before participating in this week's challenge, learn more about [Sally Ride](#), the first US woman to go to outer space and also the youngest American astronaut at thirty-two years old!

After watching the video about Sally Ride, follow the instructions on the next page to create your own robotic hand! Sally Ride operated the robotic arm (Remote Manipulator System) on the STS-2. The robotic arm was used to lift satellites into orbit and retrieve them.



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ROBOTIC HAND

Directions:

- Cut out your paper hand (use the template on the next page).
- Decorate the back of your paper hand (blank side).
- Bend each finger and thumb at the solid black line (toward you).
- Cut straws so that they are smaller than each sections of the finger.
- Tape down each straw piece with a small piece of tape (lined side).
- Tape down the tip of string to the back of each fingertip.
- Thread each string through the straws for each finger.
- Pull the strings to make your robotic hand move.



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