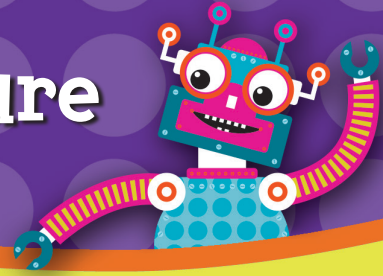




Robot Adventure



A robot is a machine that senses the world, processes the sensor's information with a computer, and then does something in response to that information. Robots build cars, clean houses, help soldiers and doctors, are played with by kids, and explore other planets. They may not look like the robots we see in the movies, but they are still doing important jobs.

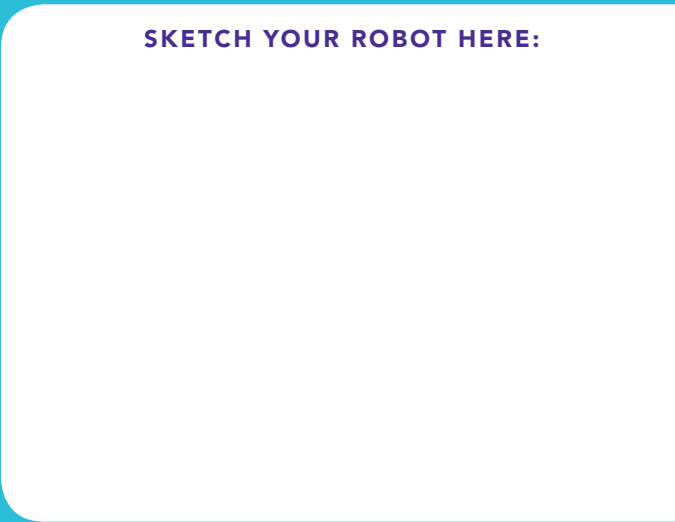
CONGRATULATIONS!

You are part of Girlstart's All-Girl Robot Research Team. Girlstart has decided to build a robot and needs your ideas! Using your creativity and these materials, design a robot that has a specific function. Remember, Girlstart wants you to be unique, creative and have fun! Sketch out your robot prototype below to help your design process.

MATERIALS:

- 4 Life savers
- 4 Toothpicks
- 3 Pipe cleaners
- 2 Wiggly eyes
- 2 Straws
- 2 Small paper clips
- 2 Pom Poms
- 2 Index cards
- 1 Dixie cup
- 1 Rubber band
- Piece of Card Stock
- Jewels
- Foam Shapes

SKETCH YOUR ROBOT HERE:



FUN ROBOT FACTS

- The word ROBOT was used for the first time in a play called "R.U.R." (Rossum's Universal Robots) by Karel Čapek.
- "Maria" from the movie Metropolis was the first robot in a movie.
- In 2002 iRobot teamed with National Geographic to explore an archeological wonder, the Great Pyramid of Giza.
- The smallest robot to date is Epson's Micro Flying Robot at 2.8 inches high.
- The "animatronic pet" Furby can use over 800 phrases in English and 'Furbish.'
- One robot, BigDog, is designed to carry up to 340 lbs across all types of weather conditions.
- In approximately 1495, Leonardo da Vinci designed the first humanoid robot in Western civilization.

NAME YOUR ROBOT: _____

MY ROBOT CHANGES THE WORLD BY DOING THIS...

Robotics is a multi-disciplinary field; it takes a lot of different expertise to design, build and program a robot. Often mechanical engineers, electrical engineers, computer scientists, industrial engineers and industrial designers are all involved.