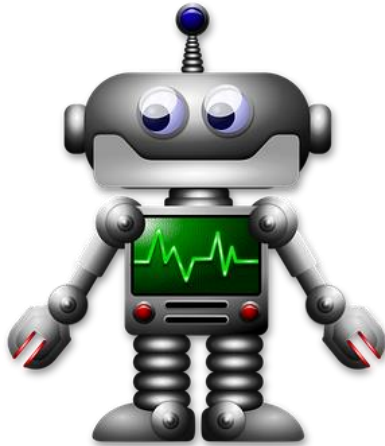


## STEAM Friday



There are so many tools and inventions in our homes that help make our lives a little easier. Your STEAM challenge today is to create a model (a smaller version, not actual size) of a **robot** that could help you with housework.

Your robot should have a least one movable joint, like an arm that can go up and down. Your robot needs to help you complete a housework task like sweeping, cleaning, cooking, etc. You can use whatever materials you have at home and that you have permission to use. Things like cardboard, tin foil, paper, tape, toilet paper rolls all would make some cool robots! If you don't have many building supplies, you could draw out a design for a robot instead!

Design Requirements: Completed model robots will have a least one movable joint.

Performance Requirements: To be considered successful, the robot should be able to help you with housework of some kind.

Don't forget to follow our STEM Planning steps!

1. Describe the problem. What do you want to happen?
2. Brainstorm your ideas
3. List the materials you will need
4. Draw and label your designs
5. Write down the steps to your plan
6. Test your design. Describe how you tested it and what happened
7. Record your results
  - Did your robot have a moving joint?
  - Could it help you with housework? What kind?
8. What worked and what would you do differently next time?

Extension: Write an advertisement on your Robot, detailing all of its amazing features!

What price would you sell it for? Why would people want to buy it? Be creative in your ads!

Make sure you send pictures to show off your amazing designs! Happy creating!