

STEM

starts now

Recycled Robots

Recommended Age: 53-60 Months

STEM concepts: Science (physical science), Technology (simple tools, simple machines), Engineering (Engineering), Math (patterns and classification, shapes and spatial recognition)

Materials: piece of large paper and pencil, recycled materials as needed (egg cartons, milk jugs, juice cartons, take out food containers (washed), sticks, straws, soda bottles and lids, plastic utensils, etc), extension activity requires a computer and internet connection

What to do: Discover a task in your house that you and your child think robot could help and become a piece of technology in your home. The most popular - cleaning up toys or more specifically small toys like Legos). Take the paper and pencil and draw the shapes and pieces needed to complete the task. Does your robot need arms, hands, legs. Using your recycled materials see if you can build your robot.

Language and Communication: Talk with your child about how we have technology in the world that help up do things. For example. we have utensils to helps us eat without making a mess. We have cars to get us from place to place. Ask your child, is there something in the house that we could make a tool or a robot to help with. Give suggestions if needed. Talk with your child about the shapes and parts needed to build a robot. Discuss the amount of pieces you're using. As you begin to build add in the conversation about how you are recycling materials to make something else. Most importantly - while your child is drawing a robot encourage their creativity!

Expand the Activity: Using a computer or books from your local library, research what robots are used for today in our world.

