

## **Silly Walks** (robotics)

1. **Lesson Overview** In this activity, students will build a robot that can move without the use of wheels.

This can be done with very little or no programming experience. The motors just need to move forward.

**Suggested Time:** 45-60 minutes

### **Learning Objectives:**

- Students will understand simple programming (move forward)
- Students will practice building with robotics components
- Students will be able to think outside of the box and think of non-traditional ways to make the robot move (NO CARS!)

### **Materials:**

- Robotics kit that includes a variety of building pieces
- Motors

### **Directions:**

2. Show students how the motors work, indicating which part spins and what parts are used to attach to the brick. The motors must be physically attached to the brick to move.
3. Before students build the silly walker, have them explore the materials and share two different ways they can attach the motors.
4. Students can build the silly walkers, testing as they work.
5. Give students a five to ten-minute warning to complete their robots.
6. Have the students put all the robots down on the floor and start them all at once. All motors should be programmed to move forward.

### **Possible Discussion Topics:**

- What was easy about this activity?
- What was challenging about this activity?
- What is a tip you want to share with others about building?
- What would you have done?