

# *TECH TRUNKS*

## *ROBOTICS*

### **Activity 1: Chopsticks - Grades 5-8**

**Get a Grip! Joints, linkage, fulcrum, leverage, gripper -- terms used to describe exploring the activity of creating a gripper using (linking) two chopsticks together to lift small objects. (approximately 15 minutes)**

### **Activity 2: Pennies in a Boat - Grades 5-8**

**Learn the importance of testing and redesigning as participants investigate buoyancy, force, weight distribution, and surface area by designing and re-designing an aluminum foil boat to hold pennies as weights with the purpose of continuing to float. Record your observations.**

### **Activity 3: EcoBot Challenge - Grades 5-8**

**Your challenge is to create a containment area and discover how to build an Eco-Bot that solves an environmental toxic spill. Participants will build a prototype using a small motor, toothbrush, button cell watch battery, and double side foam mounting tape; demonstrate ability to control and program the EcoBot; and measure and record the EcoBot's effectiveness.**