

# **Get Charged Up!**

## **OUTREACH PRE-VISIT PAGE (GRADES 4-6) 60 minutes**

Arizona Science Center will be arriving no later than 15 minutes before the start of your program(s). **Circuits** is intended to be a hands-on introductory electricity and circuit program that covers:

- Open versus closed circuits
- Moving electrons create a current
- Building various electrical circuits

### **PROGRAM NEEDS**

- **The Arizona Science Center's instructor is a guest in your classroom. Class teacher/instructor must remain in room for duration of program for liability reasons. We cannot be responsible for your students.**
- One instructor table at front of room placed near a grounded outlet
- Limited to 30 participants who will work in teams of 2 students per group
- Desk or table for students to work
- An available whiteboard or chalkboard is preferred
- If multiple programs are scheduled at your location, it is ideal that the instructor set up in one room and participants be brought in; otherwise allow 15 minutes between programs

### **SCIENCE STANDARDS**

**Grade 4:** S5C3PO1: Demonstrate that electricity flowing in circuits can produce light, heat, sound, and magnetic effects

S5C3PO2: Construct series and parallel electric circuits

S5C3PO3: Explain the purpose of conductors and insulators in various practical applications

S5C3PO5: State cause and effect relationships between magnets and circuitry.

