

# **BODY WORKS**

## **OUTREACH PRE-VISIT PAGE (GRADES 2-6) 60 minutes**

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

- Digestive System
- Circulatory System (components of blood)
- Importance of eating healthy and exercising

### **PROGRAM NEEDS**

- Class teacher/instructor must remain in room for duration of program
- One instructor table at front of room
- Limited to 30 participants who will break into 6 groups
- If multiple programs are scheduled at your location, it is ideal that the instructor be set up in one room and participants be brought in, otherwise allow 15 minutes between programs

### **SCIENCE STANDARDS**

**Grade 2:** S4C1PO2: Identify the following major parts of the digestive system (mouth, esophagus, stomach, small and large intestines), respiratory system (nose, trachea, lungs, diaphragm), and circulatory system (heart, arteries, veins, blood).

S4C1PO3: Describe the basic functions of the following systems: digestive (breakdown and absorption of food, disposal of waste), respiratory (exchange of oxygen and carbon dioxide), and circulatory (transportation of nutrients and oxygen throughout the body).

**Grade 5:** S4C1PO1: Identify the functions and parts of the skeletal system: protection (rib cage, cranium), support (vertebrae), movement (pelvis, femur, hip).

S4C1PO2: Identify the following types of muscles: cardiac (heart), smooth (stomach), skeletal (biceps)

S4C1PO3: Identify the functions and parts of the nervous system: control center (brain), relay mechanism (spinal cord), transport messages (nerves).

S4C1PO4. Distinguish between voluntary and involuntary responses.

**Grade 6:** S4C1PO7: Describe how the various systems of living organisms work together to perform a vital function: respiratory and circulatory, muscular and skeletal, and digestive and excretory.

