

# **REALLY COOL SCIENCE**

*PRE-VISIT PAGE (GRADES 2-8) 45 minutes*

*The Arizona Science Center will be visiting your location with all the materials and equipment needed for your group to enjoy a presentation on the effects of extremely cold temperatures on solids, liquids, and gases.*

## **CONCEPTS**

- All matter is made of molecules that are in constant motion
- Matter on Earth can be defined as being in either a solid, liquid, or gaseous state
- Molecules in matter move faster as they get warmer and slow down as they get colder
- Many solids, liquids, and gases expand when they get hot and contract when they get cold
- Elasticity of solids and biological matter are affected by temperature

## **EXTENSION ACTIVITIES**

- Monitor, record, and graph daily temperature
- Conduct research on the Greenhouse Effect
- Create models of molecular motion

## **PROGRAM NEEDS**

- **One instructor table at front of room**
- **Limited to 90 participants who may sit on the floor or in chairs provided that instructor is visible and audible to all**
- **Participants must be seated at least 6 feet away from instructor table**
- **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**
- **Class teacher/instructor must remain in room for duration of program**

