

REALLY COOL SCIENCE

OUTREACH PRE-VISIT PAGE *(GRADES 2-5) 45 minutes*

Arizona Science Center will be arriving no later than 15 minutes before the start of your program(s). **Really Cool Science** is an assembly program that uses liquid nitrogen to cover:

- Effects of extremely cold temperatures on solids, liquids, and gases
- Matter is made of molecules that are in constant motion
- The three states of matter
- Thermal contraction and expansion (expand when hot, contract when cold)

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
- Water source readily available
- 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

SCIENCE STANDARDS

Grade 2:

S5C1PO1: Describe objects in terms of measurable properties (e.g., length, volume, weight, temperature) using scientific tools.

S5C1PO2: Classify materials as solids, liquids, or gases

S5C1PO3: Demonstrate that water can exist as a:

- gas – vapor
- liquid – water
- solid – ice

S5C1PO4: Demonstrate that solids have a definite shape and that liquids and gases take the shape of their containers.

Grade 5:

S5C1PO1: Identify that matter is made of smaller units called:

- molecules (e.g., H₂O, CO₂)
- atoms (e.g., H, N, Na)

600 E. Washington St. ☼ Phoenix, AZ 85004 ☼ 602-716-2000 ☼ www.azscience.org

