

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

- Class teacher/instructor must remain in room for duration of program
- 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

SCIENCE STANDARDS

Grade 2: S5C1PO2: Classify materials as solids, liquids, or gases.

S5C1PO3: Demonstrate that water can exist as a gas, liquid, solid

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 and atoms.

