

Freeze: The Science behind Crafting Ice Cream

OUTREACH PRE-VISIT PAGE (Pre-K Ages 3-5) 1 hour

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

- Precise measurement of liquid and solid materials
- Exploration of the properties of solids and liquids along with vocabulary building
- The Understanding that cold has an effect upon liquids

PROGRAM NEEDS

- Two adult helpers
- **The Arizona Science Center's instructor is a guest in your classroom. Instructors/helpers MUST remain in room for the duration of program for liability reasons. We cannot be responsible for your students.**
- Limited to 30 participants
- One preparation table at the front of the room
- Table/desk workspace for students
- Floor space for literacy engagement activity
- 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

Before the Program Day (In Preparation)

- Discuss the children's favorite types of ice cream. Ask, "What is ice cream? Where does it come from?"
- Encourage children to draw pictures of or write about their experiences with ice cream.
- Add enhancements like ice cream scoops, bowls, or magazine cut-outs of ice cream to make an ice cream shop in the dramatic play/ housekeeping area.

Extended Learning Opportunity ideas will be provided at the end of the program.

Arizona Early Learning Standards

Science S1C1-C4: Learns about ice cream through a Scientific Process

Language and Literacy S1C1-C2: Engages in literacy activities

Mathematics S2C1-C2, S4C2: Measures, mixes, and understands properties of liquids

Physical Development S1C1, S2C1: Gross and fine motor development

