



SUPER FAB LAB INVESTIGATION:

Frozen Fruit



Episode: My Ice Pops!

Cycle: Transformation & Change

Purpose (What We're Going to Explore and Learn)

- We're observing reversible change.
- We'll investigate one kind of reversible change by observing water as it freezes and melts.
- Freezing and melting take time. In this investigation we think about ways to make ice melt.

Materials (The Stuff We Need)

- Ice cube trays
- Fruit, in bite-size pieces
- Heat and moisture-safe tray or baking dish with sides
- Freezer

Procedure (What to Do)

1. Put one piece of fruit (more if you're using really small fruits, like blueberries) in each section of the ice cube trays. If you are doing this in the classroom, be sure you'll make enough cubes for each child to have one.
2. Cover with water and put into the freezer. Ask children to predict what will happen to the water and fruit in the freezer.
3. You can check the tray regularly if you want to observe how long it takes for the fruit cubes to freeze.
4. When the cubes are frozen, remove them from the freezer and turn the cubes out onto the tray. Observe what happened to the water around the fruit. How did it change?
5. Now you need to get the fruit out of the ice. What can you do? This is a problem to solve. Let children brainstorm ways to get the fruit out of the ice cubes.
6. Some solutions include using warm water to melt the ice, microwaving the fruit cubes, or just waiting. Choose one solution and try it.
7. Eat your snack. Enjoy!

Other Stuff You Might Want to Know or Do

- Make Alice's ice pops. Place a banana slice in a small paper cup. Insert an ice pop stick, then pour juice into the cup. Put it in the freezer. When frozen, peel the cup away from the juice pop and enjoy.
- In this investigation, we focus on problem-solving. Look for ways to practice this thinking skill with children. Try to take the opportunity to turn their questions around and ask what *they* think they should do to solve a problem. Discuss their ideas and yours to work on a solution together.

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