WHAT YOU WILL NEED:

- Bottled water (plan for multiple attempts) We used six to get it right!
- A clear glass
- Crushed ice

SUPERCOOLING

Overview and objective:
Students will learn the process to attempt supercooling.

**Supercooling**, also known as undercooling, is the process of lowering the temperature of a liquid or a gas below its freezing point without it becoming a solid.


Procedure:

1. Take a few bottles of water and lay them flat and undisturbed in the freezer for 2 hours and 45 minutes. **
2. When the timer goes off, carefully remove the bottle and take off the cap.
3. Tilt the cup and SLOWLY pour the water into the glass.
4. Put your finger in the crush ice, making sure a piece sticks to your finger.
5. Touch the surface of the water and watch the frozen reaction!
6. One little ice chip can start a chain reaction and freeze the water instantly.

** This experiment takes patience. The first time we tried it, ALL the water bottles were already frozen at 2:45! We attempted again, this time taking out water bottles in 5 minute increments, beginning at 2:15. Our supercooling success came at 2:25!

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