

# HOW TO MELT ICE WITH SALT

## Overview and objective:

Students will discover how salt melts ice.

### How does it work?

Water usually freezes at 32 degrees Fahrenheit, but when it's mixed with salt, it lowers the freezing point significantly, making it melt faster.

### Procedure:

1. Place the ice cubes in the water and use the piece of string to pull them out. You won't catch anything! Try again, this time sprinkling a little bit of salt on ice. Wait a minute or so and now pull out the string to see what you caught

2. When the salt is sprinkled over the ice, it melts. We used a small amount, so the water around the ice quickly freezes again, trapping the string as it refreezes. You can also test how salt lowers the freezing point by putting ice cubes out on two separate plates. Sprinkle salt over the ice cubes on one plate and observe which ice cubes melt first.



## WHAT YOU WILL NEED:

- Mini muffin pan
- Food coloring
- Measuring cups
- Water
- Eggs
- Alum powder
- Sea salt
- Borax
- Epsom salts
- Sugar
- Safety goggles
- Safety gloves
- Adult supervision

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