



Salty Ice Cubes

Grade Levels: 1-4

Background

Energy comes in many different forms, and often, those forms can change into other forms of energy. For example, when you eat food then run, the chemical energy from the food turns into motion. Chemical energy can change into other forms of energy too.

Question

Will salt water freeze?

Possible Hypothesis

Salt water will/will not freeze.

Materials

- Three small plastic cups
- Water
- Salt

Procedure

1. Fill the cups half-full with the same amount of water.
2. Add 1 tablespoon of salt to one cup. Mark it with a 1. Add 2 tablespoons of salt to another cup. Mark it with a 2. Mark the third cup with a 0. This is your control. It will have no salt. Stir the cups.
3. Place the cups in the freezer. Observe the cups every 15 minutes for two hours.

Analysis and Conclusion

Did all the cups of water freeze? Which froze first? What does this experiment tell you about salt?

Real World Connection

Who might be able to use this information in the real world? Why might it be important to them?

