

ICE RACE

FIRST GRADE - Energy &
Change



REAL WORLD CONNECTION

REAL PROBLEM I'M ADDRESSING - The real problem is that ice can be slippery and dangerous. When ice is on the roads or sidewalks, cars and people can slip.

WHY DOES IT MATTER? - We need to know the fastest way to melt ice so people don't get hurt.

WHO BENEFITS? - Drivers, people, and the cities.

QUESTION AND HYPOTHESIS

QUESTION

Which substance would make ice on roads melt faster?



HYPOTHESIS

I believe salt would make ice melt faster.

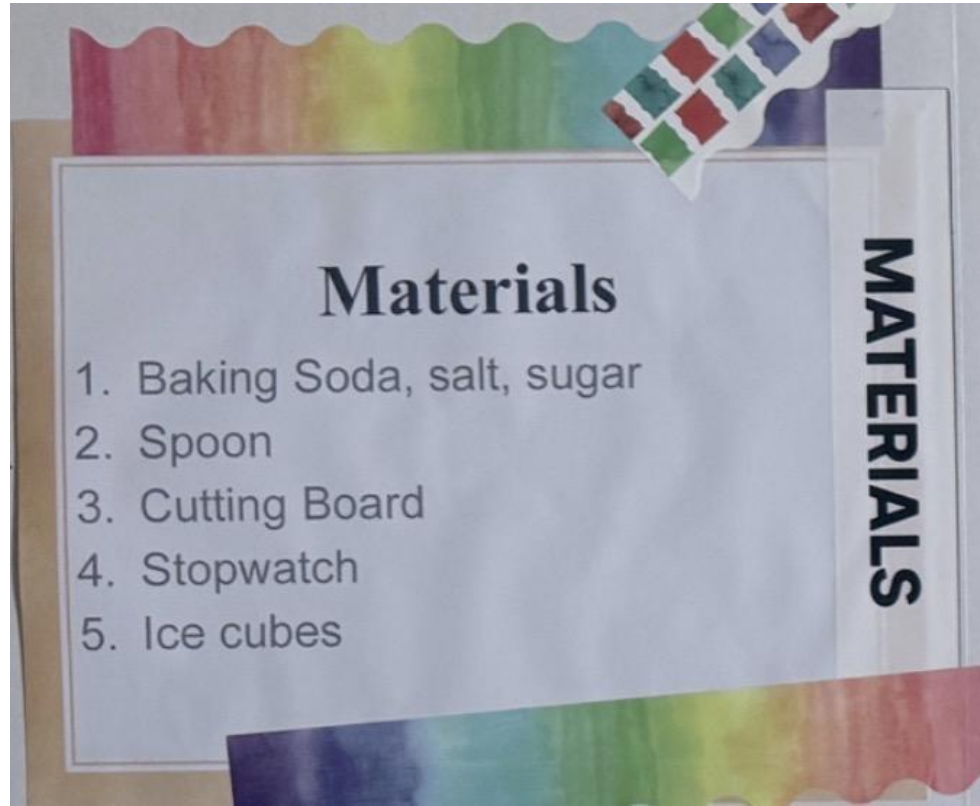


INTRODUCTION

Ice melts when it gets warmer than freezing. I want to see if different substances can make it melt faster.

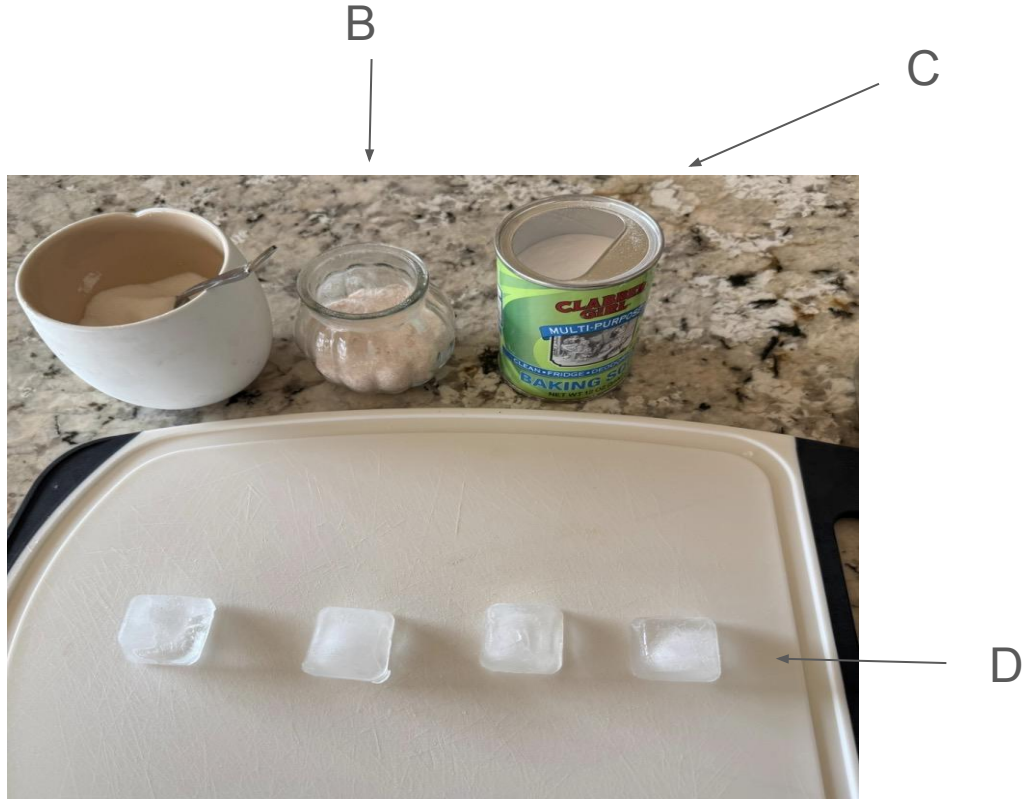


MATERIALS



SET-UP

- A →
- A - sugar
- B - salt
- C - baking soda
- D - control group



PROCEDURE

Procedure

1. Put 4 ice cubes on the cutting board
2. Put $\frac{1}{2}$ tsp of salt, sugar, and baking soda on each ice cube
3. Turn on the stopwatch
4. Note when each ice cube melted

PROCEDURE

DATA

TIME ELAPSED 50:59

Sugar = half melted

Salt = Fully melted

Baking Soda = mostly solid

Control = partially melted

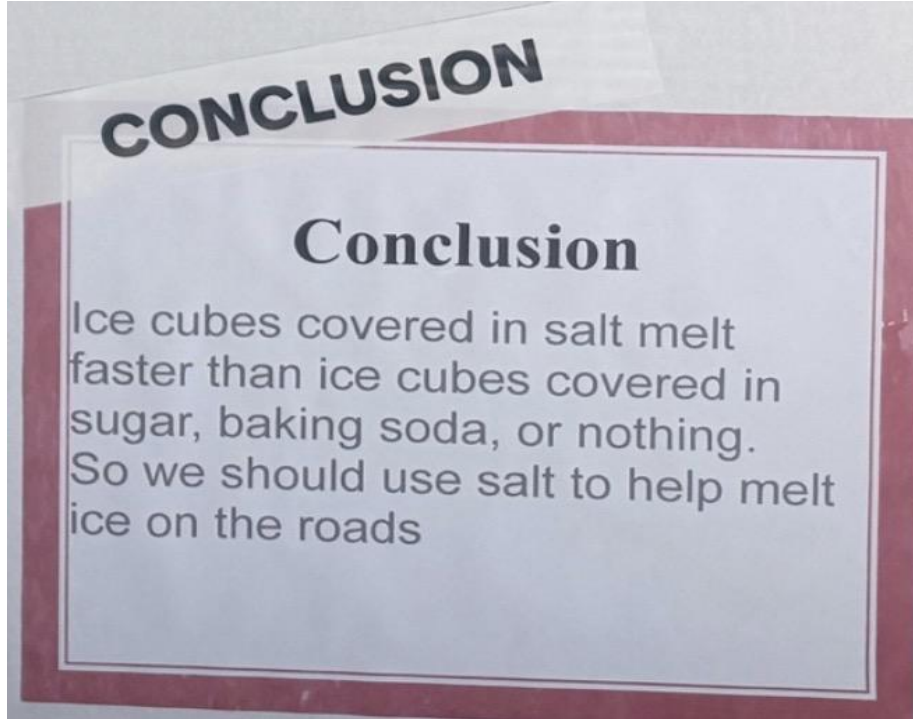


RESULTS

Results

The ice cube with the salt melted the fastest, then the sugar, then the control, then the baking soda.

CONCLUSION



My hypothesis was correct. Ice cubes covered in salt melts fastest.

Salt melts ice faster because it lowers the freezing point.

I learned that since salt is more effective to melt ice than sugar or baking soda, it's the best thing to use on roads.

Purpose

To help ice melt on roads.

PURPOSE

Ice Race



Materials

1. Baking Soda, salt, sugar
2. Spoon
3. Cutting Board
4. Stopwatch
5. Ice cubes

MATERIALS



RESULTS



Results

The ice cube with the salt melted the fastest, then the sugar, then the control, then the baking soda.

Hypothesis

I believe salt makes ice melt faster

HYPOTHESIS

Procedure

1. Put 4 ice cubes on the cutting board
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PROCEDURE

CONCLUSION

Conclusion

Ice cubes covered in salt melt faster than ice cubes covered in sugar, baking soda, or nothing. So we should use salt to help melt ice on the roads