

What Makes Ice Melt Faster?

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Hypothesis

We think that salt will make the ice melt the fastest.

Question

Which reactor will melt ice the fastest?

- Salt
- Sugar
- Sand
- Baking Soda

Materials

- Cubed Ice
- Salt
- Sugar
- Sand
- Baking Soda
- Muffin Tin
- Tablespoon Measurement
- Clock

Procedure

1. Put two ice cubes of equal size in a muffin tin
2. Label each baking cube with whichever reactor will be put in there
3. Take a tablespoon of each reactor and sprinkle it across the ice where the label shows
4. Observe every 5-10 minutes and note down which reactor melted the ice the fastest, until 3 of the ice cubes have melted



0 Minutes



10 Minutes



20 Minutes



Minutes 35







45 Minutes



1 Hour 5 Minutes

Photos

Data

6:15			Ice melted 
6:08		Ice melted 	Ice is the same
6:04	Ice melted 	Water pool is much bigger	Water and ice increases very much
5:45	Ice melted 	Ice and water is the same	Ice is covered in a foam. Little more water
5: 20	Huge amount of water Salt cubes in the water	A little more water Ice is the same	Water increased very little Water soaked up into sand
5:10	Some water, little less ice Crystalize on ice	A lot water Ice combined	Hardly any water Ice very slightly decreased
5:00	Ice cubes No water	Ice cubes No water	Ice cubes No water

Salt

Sugar

Baking Soda

Sand

Conclusion

Our question was would ice melt faster in salt, sugar, baking soda or sand. Our hypothesis was that salt would melt ice the fastest. We thought this because salt is used to melt ice during snowstorms. During our experiment, we noticed that at first sugar had greatly decreased the ice, making our hypothesis seem wrong. The salt wasn't melting the ice as fast because it had crystalized around the ice for a while. After around 35 minutes the ice had broken free from the salt, leaving many salt cubes in the water. The results for our experiment was that salt melted ice the fastest.



Thank You!