

What Makes Ice Melt Faster?

By: 5th grade
student.

Hypothesis

My hypothesis is that the salt will melt the ice faster, because the main ingredient in salt is sodium chloride. Sodium chloride melts ice and helps prevent re-freezing by lowering the freezing point of water.

Materials.

These materials can be found around the house.

Main Materials

- Baking powder
- Salt
- Dish soap
- Quartz

Materials

- 4 plates
- Scale
- 4 Ice cubes
- 4 bowls

Procedure

First you grab your clean bowl and put it onto the scale. Then write down how many grams it weighs, after that you grab an ice cube from your freezer and put it into the bowl then write down how many grams it weighs minus the bowl.

e.g Bobs bowl weighs 30 grams. And when the ice cube is in the bowl it weighs 50 grams. So what bob does to figure out how much the ice cube actually weighs is that he takes 50 grams and minuses 30 grams which is the bowl, what does he get? 20 grams, so his ice cube weighs 20 grams.

Then grab the ice cube you weighed and put it onto a clean plate.

After that you grab one of the materials from the main material list and put it into a tablespoon except the quartz, then put the material you picked onto an ice cube and wait 5 minutes.

After 5 minutes you grab your ice cube and then you put it onto the scale again. Then you write down the weight of it in grams and do another material from the main material list.

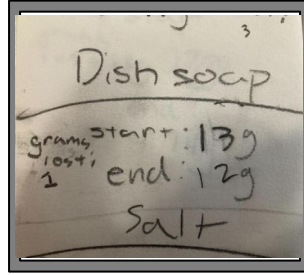
After you're done compare your results and see which one performs the best.

Grams lost: 1

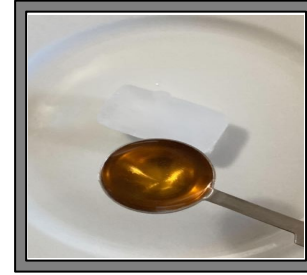
Dish Soap



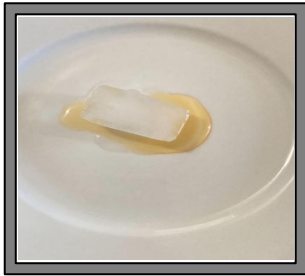
Weigh it out.



Make sure to write notes.

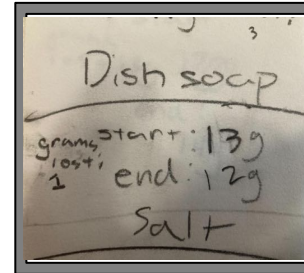


Get the tablespoon of your material.



Put it onto the ice cube.

Wait 5 minutes....



Put the ice cube back into the cup and weigh it out.



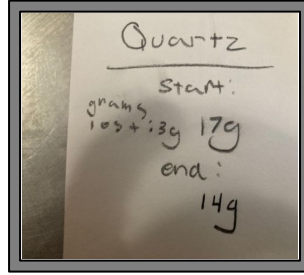
Take Notes.

Grams lost: 3g

Quartz



Weigh it out.

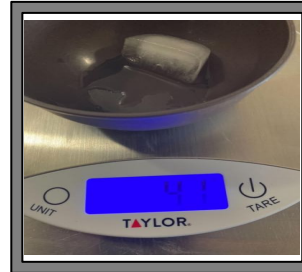


Make sure to write notes.

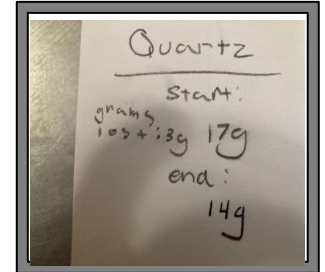


Put it next to the ice cube.

Wait 5 minutes....



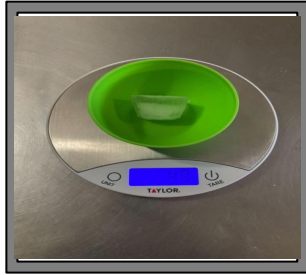
Put the ice cube back into the cup and weigh it out



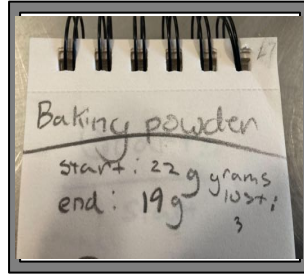
Take Notes.

Grams lost : 3g

Baking powder



Weigh it out.



Make sure to write notes.



Get the tablespoon of your material.

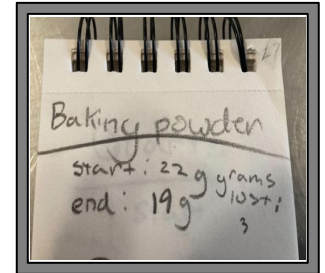


Put it onto the ice cube.

Wait 5 minutes....



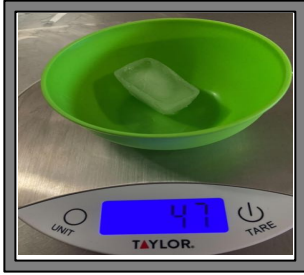
Put the ice cube back into the cup and weigh it out.



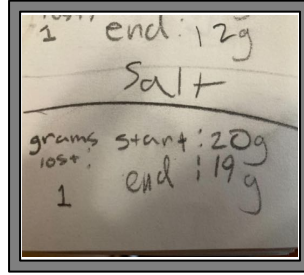
Take Notes.

Grams lost: 1g

Salt



Weigh it out.



Make sure to write notes.



Get the tablespoon of your material.

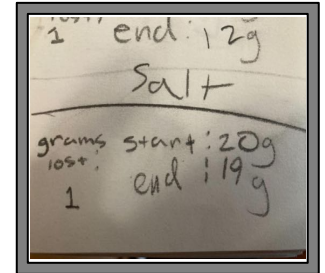


Put it onto the ice cube.

Wait 5 minutes....



Put the ice cube back into the cup and weigh it out.



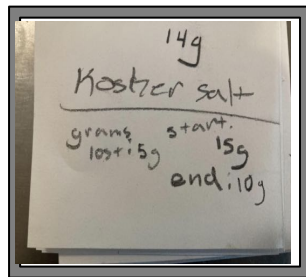
Take Notes.

Grams lost: 5g

Kosher Salt



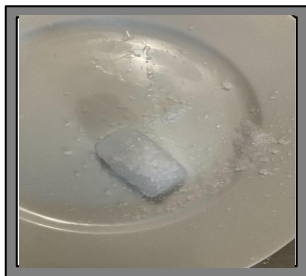
Weigh it out.



Make sure to
take notes.



Get the tablespoon
of your material.

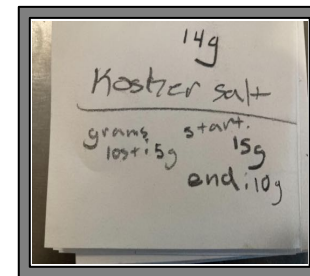


Put it onto the ice cube.

Wait 5 minutes....



Put the ice cube back into
the cup and weigh it out.



Take Notes.

Conclusion

My conclusion is that the kosher salt melted the ice cube the fastest because kosher salts grains are bigger and more full of more sodium chloride than the other salt which also has iodine and smaller grains.

Sources: Google.

**THANK YOU FOR
LISTENING TO MY
PRESENTATION!!**