Plain

Sugar

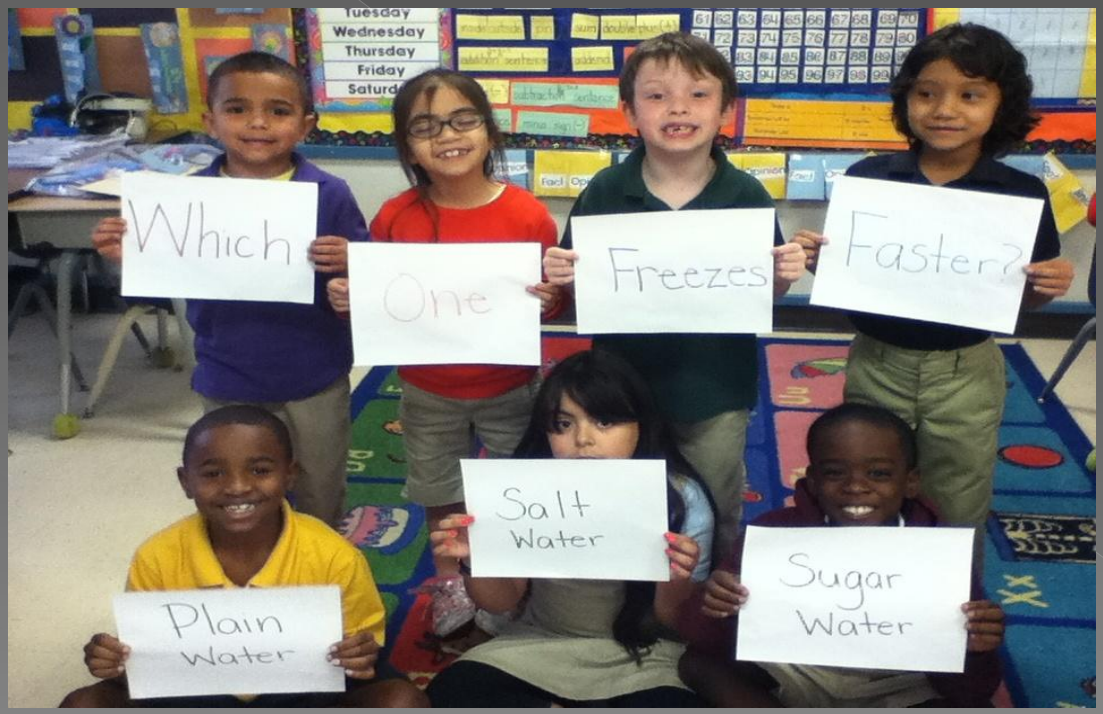
Salt

Plain Water

Sugar Water

Salt Water

Problem: Which water freezes the fastest? Plain, Sugar or Salt Water?



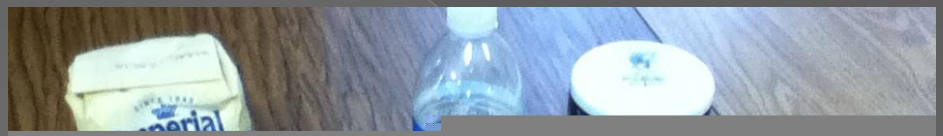
Plain

Sugar

Salt

HYPOTHESIS

If we put salt or sugar in water it will freeze faster than a plain cup of water.



HYPOTHESIS

Plain

Salt

Sugar

The Vote

3 for plain water

3

4 for salt water

4

11 for sugar water

11

Plain

Sugar

Salt

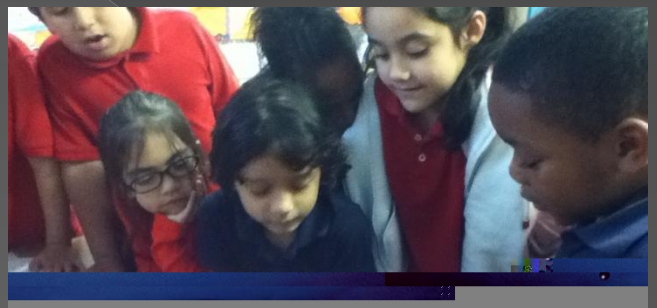
Variables

Independent Variable- *The water was changed by adding different substances.*

Dependent Variable- *The element that was changed by sugar or salt.*

Materials

1. Water
2. Food Coloring
3. Sugar
4. Salt
5. Clear cups
6. Measuring Cups



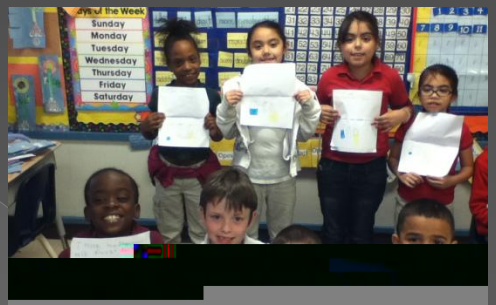
Procedure

1. Collect Materials.
2. Pour a water into each cup.
3. Pour 1/ 8 cup of sugar in one.
4. Pour 1/8 cup of salt in another one.
5. Leave one cup of water plain.
6. Sit each cup in the freezer and watch which one freezes faster!

Results

The sugar water froze faster than the plain and salty water. However, the salty water was the least frozen one of all.

Data


Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday

Data

Plain Water	Half Frozen
Sugar Water	Fully Frozen
Salt Water	1/3 Frozen

Data Graph

Plain water froze halfway.

Sugar water froze all the way.

Salt water did not freeze solid. Still partly a liquid.

Bibliography:

www.scientificamerican.com

*www.**science**kids.co.nz/**experiments**.html*

Conclusion

We concluded that different substances can make a difference in how fast water freezes. The sugar water froze the fastest.

Learning in Science!