Sugar and Salt Crystals

Question

Which one will grow faster, sugar crystals or salt crystals?

Hypothesis

I predict that the sugar crystals will grow faster because sugar can crystalize

Materials

Table salt, 1/2 cup of water, clean clear container, string and pencil/ 3 cups of table sugar, 1 cup water, glass jar, pencil and string, pot for boiling water, spoon

Salt Procedure

- 1. Heat up a pot of water
- 2. Choose what salt you are using
- 3. Stir in as much salt as possible
- 4. Pour the salt water into a clear clean container
- 5. Tie a string around a pencil
- 6. Cut the string the correct size to dangle in the water
- 7. Balance the pencil on top of the glass jar

Sugar Procedure

- 1. Dissolve the sugar in boiling water
- 2. Allow the solution to cool for a few minutes before you put in in the jar
- 3. Pour the sugar solution in the glass jar
- 4. Tie string to a pencil
- 5. Let string dangle in the jar
- 6. Balance pencil on top of the jar
- 7. Place jar somewhere where it won't be disturbed.

Manipulated Variable

one crystal setup used salt and the other used sugar

Controlled Variables

The variables that are staying the same is the amount of water, the string and jar

Measured Variables

The amount of time and speed growth

Data

The amount of days it took for the crystals to form

Which crystal	Week one	Week two	Week three
Sugar crystals	4 days	5 days	5 days
Salt crystals	3 days	2 days	2 days

Conclusion

My hypothesis proved incorrect because I thought that sugar crystals would form faster than salt crystals, but salt crystals formed faster than sugar. The actual question to the scientific question I asked is, which one will grow faster? Sugar crystals or salt crystals? The data tells me that sugar crystals take longer to form than salt.

Pictures of experiment



