

## Discussion

Read each statement of the three statements aloud and select which of the two following statements is consistent.

- 1. Ice melts when heat speeds up water molecules so fast they cannot align into solid “crystal” structure.**

I think the salt makes it *easier* to melt ice.

I think the salt makes it *harder* to melt ice.

- 2. Pure water starts to melt when the temperature reaches 32 °F. This is the *freezing point* of water.**

I think that salt ice starts to melt when it is *colder* than 32 °F.

I think that salt ice starts to melt when it is *warmer* than 32 °F.

- 3. Ice melts when energy from the surroundings is transferred to the water molecules in order to speed them up.**

I think that melting salt ice will *remove* energy from the surroundings, making it *colder*.

I think that melting salt ice will *add* energy to the surroundings, making it *warmer*.

## Predictions

Which ice solution will melt first? Which last?

Which ice solution will make the surrounding water coldest? Which warmest?

## Experiment

	Temperature (°F)		
Time	pure ice	salt	sugar
2 minutes			
4 minutes			
6 minutes			
8 minutes			
10 minutes			
12 minutes			
14 minutes			

