A Book Club Blackline Master	Name:
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## What Is Freezing Point? Science Experiment

## You will need:

- · Three identical clear plastic cups
- · One or two trays of ice cubes
- · Jug of water
- · Salt
- · Teaspoon
- Cooking thermometer
- Marker pen

## What to do:

- Write 'Ice' on cup 1, 'Ice + Water' on cup 2, 'Ice + Water + Salt' on cup 3.
- 2. Fill cup 1 to the top with ice cubes only.
- 3. Fill cup 2 with  $^2/_3$  ice cubes and  $^1/_3$  water.
- 4. Fill cup 3 with  $^{2}/_{3}$  ice cubes,  $^{1}/_{3}$  water and 3 tea spoons of salt.
- 5. Using the cooking thermometer, record the temperature of each cup in the table below:

Record results:					
Cup	After 1 min	5 min	10 min	15 min	30 min
1					
2					
3					

## Other observations:

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1.	Which cup stayed coldest the longest? Why?		
2.	Which cup recorded the greatest rise in temperature after 30 minutes? Why?		
3.	Which cup melted quickest? Why?		
4.	What is the temperature at freezing point?		
<u> </u>	How does salt affect ice?		
6.	How would the air temperature affect the melting of the ice cubes?		

**FACT:** The oceans don't freeze even when the temperature is below  $O^{\circ}C$  because salt water freezes at a lower temperature than normal water.