Names:				
	Period:			
	Phase Change Lab			
<u>Materials:</u>	Beaker, Ice, Water, Thermometer, Graph paper, hot plate			
<u>Task:</u>	Observe and record data on the phase change of ice to water to steam			
Predictions	<u>3:</u>			
1)	What will happen to the water? To the ice?			
2)	Are you adding or subtracting energy during this experiment?			
Procedure				
1)	Pour about 75 ml of water into the beaker			
2)	Place 15 ice cubes into the water and record the temperature of the water			
3)	Record the temperature of the water every 30 seconds. Continue to record the temperature for 10 minutes.			
4)	Once the water begins to increase in temperature, place the water on the hot plate.			
5)	Turn the hot plate up to high.			
6)	Continue to record the temperature of the water for 20 more minutes.			
7)	Use graph paper to prepare a line graph comparing time versus temperature.			
Answer th	e following questions:			
a)	What was the initial temperature of the water?Celsius			
b)	What was the highest temperature that the water reached? Celsius			
c)	What was the temperature of the water as the ice was melting? Celsius			

f) Describe the physical changes you observed and the energy associated with those

changes.

Period: _____

Time	Temperature of Water	Time	Temperature of Water
:30		8:00	
1:00		8:30	
1:30		9:00	
2:00		9:30	
2:30		10:00	
3:00		10:30	
3:30		11:00	
4:00		11:30	
4:30		12:00	
5:00		12:30	
5:30		13:00	
6:00		13:30	
6:30		14:00	
7:00		14:30	
7:30		15:00	

Period:

Time	Temperature of Water	Time	Temperature of Water
15:30		22:30	
16:00		23:00	
16:30		23:30	
17:00		24:00	
17:30		24:30	
18:00		25:00	
18:30		25:30	
19:00		26:00	
19:30		26:30	
20:00		27:00	
20:30		27:30	
21:00		28:00	
21:30		28:30	
22:00		29:00	