		Group# Mod
		The Heating Curve of Water Lab
What Do Y	ou Think?	
what happe	ns to the temp	crature of water once it reaches its borning point? Why!
or You To	Dal	
	CONTROL CONTRO	beaker with crushed ice.
		neter so that the bulb is in the center of the ice and not fouching the
		er. The hot plate should be off.
		ometer closely until it appears to have reached its lowest reading.
		minimum temperature at time 0min in Data Table A found below.
		te. Use a medium-low setting or one suggested by your teacher.
		nd water mixture with a stirring rod. Record the temperature and
		minute in Data Table A.
THE RESIDENCE OF THE PERSON NAMED AND ADDRESS OF THE PERSON NA	A CONTRACTOR CONTRACTOR AND ADDRESS AND AD	the temperature until the water has been at a full boil for 5 minutes.
		e changes of state that you observed below. A change in state refers to
a.		om a solid to a liquid, a liquid to a gas, a solid to a gas, and vice versa
	a change no	in a solid to a riquid, a riquid to a gas, a solid to a gas, and vice versa.
7 Turn o	off the hot plat	te. When the water has cooled discard the Poturn your equipment
		te. When the water has cooled, discard it. Return your equipment
	off the hot platean up your st	
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Analysis

Use your data to complete the following questions.

- 1. What was the temperature at which all the ice had melted?
- 2. What was the boiling point of the water?
- 3. Plot a graph of the data with time along the x-axis and temperature on the y-axis. Be sure to set up your scales in equal intervals and include units and a title. Connect the dots after you plot your points.
 - a. Describe the relationship between heat and temperature.
 - b. What is happening during the flat parts on your graph?
 - c. What temperature did your group's water boil at?
- 4. On your graph.....(no written answer on this lab sheet, just identify each directly on the graph)
 - a. Identify where the phase changes are (changes from one state of matter to another). You should have two of these.
 - b. Identify where the water was a solid, liquid, and gas.
 - c. Identify where all the ice has melted.
 - d. Identify where the water started to boil.
- 5. Staple your graph to the back of this lab sheet and turn in.

Dota for Heating (unre of H20

, ime (min)	Temp (co)	Observation
0	6°	beaver full of ice
	0°	25 mL of 140, restisice
2	0	
3	0°	150 ml of 160 - 100
4	.5°	50 ml of Ho, rest is ice
5	10	65mb of Hotice
6	20	+ DML of hDd mathra
7	40	THU DOLL OF THIS A
9	5°	125 mL of the 4 metting ice
	80	125 m L of the 1
10	90	The state of the s
11	21°	All rice melted
12	35°	10014 C-
13	55°	getting foggy
14	70°	foggy & starting to steam foggy & steaming bubbling & slow
15	83°	10 Jgg & Steaming
16	93°	Dubbling & Steaming
17	93°	bubbling of steam
18	93°	THE PROPERTY OF THE PARTY OF TH
19	920	bubbling sturing
20	1)	
1	93°	V