Intermediate Science 7 Unit 2: Heat Core Lab 1: "The Plateau Problem"

Name:		
Date:		
Partners:		
Problem: What happe	ens to the temperature of water while	e it changes state?
Materials:		
2 laboratory thermometer Kettle	s Stirring rod 2 beakers	Hot plate Watch
Crushed ice	Ice-cold water	Hot water
Hypothesis 1:		[1]
Hypothesis 2:		[1]
While water boils from a increase) because	liquid to a gas, the temperature will	(drop/ stay the same/
Procedure:		[7]
Refer to pag	ge 166 of text. Identify the following	Ş
In this Activity, you are n	neasuring time and temperature. Ind	icate the: [2]
Independent Variable:		

Observations:

Time (min)	Temperature of Melting Ice (^o C)	Temperature of Boiling Water (?C)					
0							
3							
6							
9							
12							
15							

Analysis:

1. Draw a line graph for melting ice and for boiling water to show the temperature time observations. Instead of joining the points dot- to- dot, draw a smooth line or curve that passes through or between the points (a line of best fit) [10]

Title:





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4. List two sources of error that may have caused your observations to be different from the "official" temperatures discussed in chapter 4. [4]

5. Predict and sketch a graph for the heating of a sample of ice to water vapour. Be sure to label both the melting and boiling points of water on your graph. [4]



