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Phare Change Iab

<u>Materia</u>	ls:	400 mL Beaker, Ice, Thermometer, hot plate, ring stand, clamp						
Task:		Observe and record data on the phase change of ice to water to steam						
<u>Predicti</u>	ons:							
:	1)	What will happen to the ice? To the water?						
	2)	Are you adding or subtracting energy during this experiment?						
Procedu	re:							
	1)	Fill a 400 mL beaker with crushed ice.						
	2)	Put a thermometer in the ice. Make sure the thermometer is in the center of the ice. Do not let it touch the sides or bottom of the beaker.						
	3)	Place the beaker on a hot plate and turn the hot plate to a 6.5						
	4)	Record the temperature of the ice every 30 seconds. Continue to record the temperature for 30						
	• ,	minutes.						
!	5)	Use the back of this paper to prepare a line graph comparing time versus temperature.						
Answer	the f	ollowing 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						
	d)	What were the phase changes that you were observing? (liquid to gas, liquid to solid, solid to liquid, gas to liquid, etc.)						
	e)	Can you explain the temperature change (or lack of temperature change) as the ice was melting? As the water was heating up?						
	f)	Describe the physical changes you observed and the energy associated with those changes.						

Pala Table

Time	Temperature of Water	Time	Temperature of Water	Time	Temperature of Water	Time	Temperature of Water	Time	Temperature of Water
:30		6:30		12:30		18:30		24:30	
1:00		7:00		13:00		19:00		25:00	
1:30		7:30		13:30		19:30		25:30	
2:00		8:00		14:00		20:00		26:00	
2:30		8:30		14:30		20:30		26:30	
3:00		9:00		15:00		21:00		27:00	
3:30		9:30		15:30		21:30		27:30	
4:00		10:00		16:00		22:00		28:00	
4:30		10:30		16:30		22:30		28:30	
5:00		11:00		17:00		23:00		29:00	
5:30		11:30		17:30		23:30		29:30	
6:00		12:00		18:00		24:00		30:00	

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