Yhase	Chang	ne Diag	gram 🜙	jab: Cl	hanges d	of State	e for S	alt W	ater
It is a well established fact that ice made from pure water will melt at $0^{\circ}$ C and boil at $100^{\circ}$ C. If impurities are added to the water then the melting point and the boiling point will change. The greater the amount of impurities the greater will be the change in the melting and boiling points.									
f salt wa	ter and ice	and proces	ed to turn th	he solution	iagram for s into a gas. nase Diagra	Along the	way you v		
lypothes	is:								
<i><b>1aterials</b></i>	·								
1.) Set up a ring stand with a test tube clamp to hold the test tube. Place the alcohol burner under the test tube. DO NOT LIGHT THE BURNER.  2.) Half fill a test tube with equal amounts of the salt water and ice. Insert the test tube into the test tube holder. Place a thermometer into the solution and rapidly stir the solution for 30 seconds. Record the initial temperature when it reaches its coldest measurement. Continue to record the temperature every 30 seconds until the ice has completely melted. This takes about 5 minutes.  3.) AFTER all the ice is melted light the alcohol burner with a match. Put the alcohol burner under the test tube. Keep the flame in contact with the bottom of the test tube.  4.) Continue to stir the solution and record the temperature every 30 seconds. YOU MUST STIR RAPIDLY. When the solution boils continue recording for another 3 minutes then stop. DO NOT STOP STIRRING or the solution will boil over. Immediately remove the flame from under the test tube.  5.) Graph the results of the Temperature vs. Time on a piece of graph paper. Remember DO NOT connect the dots. Find the trend in the data and draw straight lines. Data Table:									
`ime	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp
sec		3:30		6:30		9:30		12:30	
:30		4:00		7:00		10:00		13:00	
:00		4:30		7:30		10:30		13:30	
:30		5:00	-	8:00	+	11:00	+	14:00	
:00		5:30 6:00		8:30 9:00		12:00		15:00	
:30		6:00		9:00	+	12:00	+	13:00	
						1	+	+	+
Conclusio	on: be sure		your hypot	hesis, use t	in the data)		our conclu	sion and tl	nen

Name \_\_\_\_\_\_ Date \_\_\_\_\_\_ Period \_\_\_\_\_