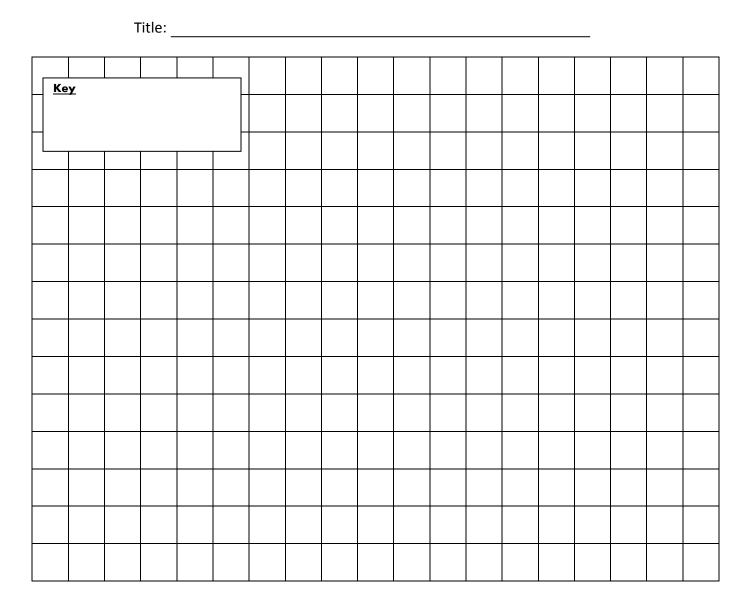
						The	Heatir	ng Cur	ve							
Name:						Date:			Pe	eriod:						
Purpose/Pr	oblem	-					us ange lo							fferent	matte	r?
Research:																
Hypothesis			-					_	-	-						
Do I     DO I	MUST not rer not pla not wa : Re MENT e Buns	nove y y with Ik arou <u>memb</u> <u>1:</u> m sen bu	safety our go or ove und the er L of wa rner, p	eruse t e class <i>Safet</i> ater re lace fla	es thro until yo he ign room; y First! cord tl	our rec iter. call th '!! he star	-	ollects	your gr	roup.		<ul> <li>Ring</li> <li>Wir</li> <li>Gla</li> <li>Gla</li> <li>Col</li> </ul>	g Stand e Mesh ss ss Ther d Wate sen Bu ter ter ar	momet r	g _ (ı	mL)
w/wire 3. Record 4. Turn of 5. Gather 6. Place ba 7. Repeat 8. Turn of <u>Analysis:</u> U	the ten Bunso more v ack on proceo f the B	mpera en bur water, the rir dure fo unsen	ture in ners; u and ac ng stan or suga burne	crease ise pap dd id; turi r wate r; leave	n on Bur; add e the f	vels or g of sa unsen lask or	tongs Ilt to w burner g of n O ring	to rem ater, r and b sugar g stanc	nove gl nix. egin st to wa I to co	ass fla teps 2- ter, an ol.	sk; duı 3. d repe	mp out at step	t hot w			
Time (min)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Tap Water																1

Which variables were controlled?

Temperature (°C) Salt Water Temperature (°C) Sugar Water Temperature (°C)

## The Heating Curve

2. Graph your results from using a line graph. Remember, 1. Title the graph. 2. Identify & label the manipulated variable (the one you changed) along the X axis and the responding variable (measured) along the Y axis (use different colors for each of the three liquids). Must show appropriate metric units!!



## **Conclusions:**

1. Was your hypothesis correct? Explain your results either way in detail.

2. On the graph, highlight each horizontal line. Explain what was happening to the liquid and the temperature when the graph shows a horizontal line (\_\_\_\_\_\_). Why? \_\_\_\_\_\_

The Heating Curve 3. Explain what is happening to the liquid when the line in the graph shows a positive slope. Why?

4. Was this a phy	sical change or a chei	mical change fo	or the water mo	blecules? Expla	in why
	e graph look like if w :				Removing Energy from Matter Temp Time
6. Draw a model	showing the water m	olecules' chang	ge in motion an	nd spacing betw	veen molecules as the water
was heated.	First minute			minutes 9	9-10
•	ions create bubbles a did they come from,	•		hat do you thinl	k were inside of the
	sugar solutions provi d in detail				Explain why you
-			-		of influence do you think swer
					e liquid to change phase or