Chem 112	Experiment 1				Remote Lab			
	Simu							
Name:	Lab TA:							
Lab Day	Mon	Tue(am)	Tue(pm)	Wed	Thu(am)	Thu(pm)	Fri	
		>!	95 >90	<mark>Grade</mark> >85 >80	>70	<70		
	I	Report: Report Submi	itted on Tim	e (Check Box)			
					Yes	<u>No</u>		

Data Collection:

For this experiment, use a some rough work paper to record the data asked for in the procedure. Make sure you label what it is correctly or you may find yourself having to go back and redo the experiment.

As an aside I made this mistake when I did it \mathfrak{D} . You will be using this data to answer the following questions and calculations.

Questions:

1.	What was the mass of water used in Exp 1a ?	
2.	Based on the freezing point of water determined in Exp 1a , do you consider water used to be pure? (Yes or No).	
3.	At what temperature does FP Sample 1 freeze ?	
4.	At what temperature does FP Sample 2 freeze ?	
5.	FP Sample 1 is what type of compound?	
6.	What is the van't Hoff factor for FP Sample 1?	
7.	What is the van't Hoff factor for FP Sample 2 ?	

<u>Calculations:</u> <u>For full credit you must show work for all questions.</u>

1a.	Calculate the Molar Mass of FP Sample 1.	
		MM:g.mol ⁻¹
1b.	Which of the compounds listed below is most likely to be y (<i>Check the most likely one</i>)	our unknown FP Sample 1?
	a) Calcium sulfate	b) Glucose
	c) Potassium hydrogen phthalate	d) Xylitol
2a.	Calculate the Molar Mass of FP Sample 2.	
- 21		MM:g.mol ⁻¹
2b.	Which of the compounds listed below is most likely to be y (<i>Check the most likely one</i>)	our unknown FP Sample 2 ?
	a) Calcium sulfate	b) Glucose
	c) Potassium hydrogen phthalate	d) Sodium oxalate

Post Lab Question: For full credit you must show work for any question requiring calculations.

is? is? is? is? is? is? is? is?	1. One of the compounds mentioned above is Xylitol . Very (and I mean very) briefly describe what this comp	ound
i. In winter, you can buy a variety of salts to use on your sidewalks. Two popular choices are sodium chloride and calcium chloride. Which of these salts is more effective? Again very briefly justifly your answer. A student performed a similar experiment with a different ionic unknown to the one used in the simulation. The student obtained the following data:	is?	
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