Name:	Date:
Chem R Pd	Regents Review
Calculations in Chemistry (with o	or WITHOUT the reference tables (8)

- 1) Read each question and determine if the formula required is on your reference tables or not.
- 2) Show the correct numerical set-up and solve each problem. You should have units in your answer.

1. How much heat is required to turn 15 grams of ice into liquid at 0°C?	2. Convert 25°C to Kelvin.
3. Instead of raising you hand and asking what to round to for question #4 → How many significant figures are in  0.4 L =  5.2 atm =  2.14 L =  Your answer should have sig figs!	4. An aerosol can contains 0.4L of gas at a pressure of 5.2 atm. If the gas is sprayed into a container with a volume of 2.14 L, what will be the new pressure?
5. What is the percent by mass of oxygen in Al(NO <sub>3</sub> ) <sub>3</sub> ?	<ul><li>6. a. Convert 12,000 Joules to kJ.</li><li>b. Write 12,000 J in scientific notation.</li></ul>
7. How much heat is required to turn 5 grams of water into steam at 100°C?	8. How many grams of NaOH are in 1.5 moles of NaOH?
9. A 25ml solution of 0.5M NaOH is titrated until neutralized into a 50 ml sample of HCl. What is the molarity of the HCl?	10. If 2.5 liters of solution contains 5 moles of dissolved solute, what is its molarity?

