Chemistry Unit 1 Warm-ups Name: _____ Period: _____

	Date	Warm-up Question
	2410	Your friend says that heat makes metal expand because the atoms in the metal absorb
		heat and swell up in size. Bigger atoms, he says, leads to a bigger piece of metal.
		Why is he wrong?
1		
		When you place some dye into warm water, the color spreads quickly. In cold water, it takes a long time. Why do you think that is?
2		
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		If "Type A" plastic floats in water, but "Type B" sinks, how do their densities compare?
		What does that mean about the arrangement of atoms in Type A vs. Type B, if they're
		both made out of the same atoms?
3		
		How is the pressure of a gas different than the temperature of a gas? Even though
		they're different, how do you think they're related?
4		
4		

	Date	Warm-up Question
5		In your own words, define the terms <i>directly proportional</i> and <i>inversely proportional</i> .
		If you have a sample of gas in a sealed container, and you double its temperature while also doubling its volume, what will happen to its pressure?
6		
7		How much higher is the average kinetic energy of particles in 227 °C gas than in -23 °C gas? (Hint: Maybe Celsius isn't the best unit to use)