

1. When you added NH_4NO_3 to the water, the temperature of the water went down. Was the salt losing energy to the water or gaining energy from the water. Explain. 4 pts

2. When you did the sodium acetate lab, and it froze, the temperature of the thermometer goes up. What does this say about the process of freezing and whether it is exothermic or endothermic. 4 pts

3. You are sitting in our classroom which is 70 F, and your body temperature is 98 F. Consider your body to be the system and the room the surroundings. Talk about what takes place with heat in this scenario and be sure to either use the term exothermic or endothermic, and also talk about what sign the heat (q) would have in this situation. 4 pts

4. Would you like to have a coat that insulates you made out of a material with a high specific heat or low specific heat. Explain why. 4 pts

Review Chemistry- 14 pts

How many valence electrons do each of the following have

Li _____ S _____ Mg _____ N _____ Ne _____

What oxidation state is most likely for each.

Li _____ S _____ Mg _____ N _____ Ne _____

Criss cross the following to develop the new compounds

Na and S

Mg and O

Al and Cl

Al and Carbonate