**Endothermic or Exothermic**

**lab**

**Problems:**

1. **How can you determine if a endothermic reaction or a exothermic reaction will occur when you make one solution out of an ionic compound?**
2. **How can you write an ion exchange to represent the chemicals that you mix together?**

**Material:**

**Ammonium Nitrate (Or NH4SCN), Potassium Chloride, Calcium Chloride, Sodium Hydroxide, Distilled water (5ml each) and thermometer.**

**Data:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Initial**  **Temp.** | **Final**  **Temp.** | **Change in**  **Temp.** |
| **NH4(SCN) +**  **H2O** |  |  |  |
| **KCL + H2O** |  |  |  |
| **CaCl2 + H2O** |  |  |  |
| **NH4(SCN)+ CaCl2** |  |  |  |
| **KCL + CaCl2** |  |  |  |

**Conclusion. From Notes**