**Problem: How can you identify the metal that is in 2 unknown ionic compounds?**

**Material: 7 known ionic compounds, 2 unknown ionic compounds, burner, wire loop.**

**Data:**

|  |  |
| --- | --- |
| **Ionic Compound** | **Color of Flame test** |
| **1.)** |  |
| **2.)** |  |
| **3.)** |  |
| **4.)** |  |
| **5.)** |  |
| **6.)** |  |
| **7.)** |  |
| **Unknown A** |  |
| **Unknown B** |  |

**Conclusion:**

**Answer the following using complete sentences:**

1. **What were the formula of the 2 unknowns?**
2. **How did you determine this?**
3. **What part of the compound was responsible for the color?**
4. **What did all of the compounds react with?**
5. **How did you make sure your wire was clean between trials?**
6. **What are Flame tests for?**