**Problem: How can you determine which solution (out of 6) will react chemically the most?**

**Material: Test tubes, 6 solutions: Pb(NO3)2, NaI, CuNO3, H2SO4, NaCO3 and CaCl2 (5ml each)**

**Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Sol.1**  **NaI** | **Sol. 2**  **Cu(NO3)2** | **Sol. 3**  **H2SO4** | **Sol.4**  **Na2CO3** | **Sol.5**  **CaCl2** | **Sol.6**  **Pb(NO3)2** |
| **Sol. 1**  **NaI** |  |  |  |  |  |  |
| **Sol. 2**  **Cu(NO3)2** |  |  |  |  |  |  |
| **Sol.3 H2SO4** |  |  |  |  |  |  |
| **Sol.4**  **Na2CO3** |  |  |  |  |  |  |
| **Sol. 5**  **CaCl2** |  |  |  |  |  |  |
| **Sol. 6**  **Pb(NO3)2** |  |  |  |  |  |  |

**Conclusion:**

**Answer the following questions:**

1. **What is the difference between a physical and a chemical reaction?**
2. **What are two examples of a physical change?**
3. **What are the four observations that are evidence of a chemical change?**
4. **Which solution do you think was the most reactive? Why?**
5. **Which solution do you think was the most stable (non-reactive)? Why?**