**Hard Water**

**Problems:**

1. **How will the polarity of tap water compare to distilled water?**
2. **What do you think will happen when you mix tap water with Lead (II) Nitrate?**
3. **What do you think will happen when you mix distilled water with Lead (II) Nitrate?**
4. **What do you think will happen to salt water when you mix it with Lead (II) Nitrate?**
5. **How can you check the pH of tap water, salt water and distilled water?**

**Material: pipette, distilled water, tap water, U.I., salt water, Lead (II) Nitrate.**

**Data:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Water** | **# Drops on a coin** | **Reaction w/ Pb(NO3)2?** | **pH** |
| **Salt** |  |  |  |
| **Tap** |  |  |  |
| **Distilled** |  |  |  |

**Conclusion:**

1. **At least 50 words.**
2. **Use the following terms:**
   1. **Hard water**
   2. **Tap water**
   3. **Minerals**
   4. **Calcium**
   5. **Cation**
   6. **Lead (II) Nitrate**
   7. **Reaction**