**Acids and Metals Practical**

**Aim:** To determine the products of reactions between acids and metals.

**Hypothesis:** I think that when an acid and a metal react, \_\_\_\_\_\_\_\_\_\_ will be produced.

**Method:**

1. Safety glasses on
2. Collect equipment
3. Put about 1cm of dilute HCl and 2 drops of Universal indicator in a test tube
4. Add a small amount of a metal
5. Collect gas and do the pop test
6. Record observations
7. Repeat 3-5 for different metals

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Metal** | **Initial pH** | **Final pH** | **Pop Test?** | **Heat given off?** | **Order of reactivity** |
| Magnesium | 4 | 3 | y | y | 1 |
| Iron | 4 | 4 | n | n | 2 |
| Copper | 4 | 3-4 | n | n | 4= |
| Zinc | 4 | 4 | n | n | 3 |
| Aluminium | 4 | 4 | n | n | 4= |

**Conclusion:**

Agree/Disagree:

Explain Results:

Acid + metal 🡪 a salt + hydrogen gas

Hydrochloric acid + magnesium 🡪 magnesium chloride + hydrogen gas

2HCl + Mg 🡪 MgCl2 + H2

Improvements: