

Mod 2 Lab Report: Experiment 2.2

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Experiment 2.2

Research Question

What is the difference between ionic and covalent compounds experimentally?

Introduction

How can we break the bonds of compounds?

Procedures

1. Pour approximately 150 ml of H₂O into each beaker.
2. Put one rounded spatula full of sugar into one beaker of H₂O and mix thoroughly.
3. Put one rounded spatula full of baking soda into the other beaker of H₂O and mix thoroughly (being certain to use the 2nd spatula).
4. Prepare your battery with leads.
5. Stick battery with attached leads into sugar H₂O first. Observe and record.
6. Stick battery with leads into baking soda solutions next. Observe and record.

Results

1. Sugar - no reaction
2. Baking soda - bubbly/fizzy reaction, copper wire oxidized

Conclusion

Ionic compounds conduct electricity. Covalent compounds do not conduct electricity.
Baking soda is ionic. Sugar is covalent.