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Chemistry

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## 2.2 Chemistry Lab

Research question- What is the difference between ionic and covalent compounds?

How can we break the bonds of compounds?

Ionic compounds can only form between metals and non metals. They also, do not have a define shape. Covalent compounds occurs due to sharing of electrons between two atoms. They are sometimes liquid or sometimes in a gaseous stat at room temp. The reason we break the bonds of compounds is so we can make new chemical bonds in the products.

Procedure-

First, poor approximately 150ml of water into each beaker. Second, put one rounded spatula full of sugar into one beaker of water and mix thoroughly. Third, put one rounded spatula full of baking soda into the other beaker of water and mix thoroughly. (but be certain to use the second spatula) Forth, prepare your battery with leads. Fifth, stick the battery with attached leads into the sugar water first. Sixth, stick battery with leads into baking soda solution next.

Observations-

Nothing happened with the sugar water. But, in the baking soda water tiny bubbles formed on the tip of the leads. And on the tip of the red lead turned blue.

Conclusion-

Ionic compounds form electricity and covalent compounds do not. You can test using electrical current. Sugar is the covalent and baking soda is the ionic.