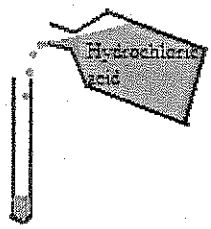
Name: _____ Hour _____

Barking Test Tube Lab



1) Pour 1 inch of Hydrochloric acid into the small test tube

2) Add a Piece of zinc to the test tube

3) Hold a slightly larger test tube over the small test tube for 3-4 minutes

4) Remove the larger test tube and quickly hold a lighted splint over the end of the tube

Repeat

5) Repeat all the steps above but put magnesium in the Hydrochloric acid instead

Lab Questions

1. What is the lighted splint checking for? _____

2. Which metal had a larger "pop" sound? _____ Why?

_____

3. Write the balanced equations of both the reactions.

_____ + _____ → _____ + _____

_____ + _____ → _____ + _____

4. What type of reaction is this? (synthesis, decomposition, single, double,)

_____ How do you know? _____

_____

Steel Wool generating heat

Chemical reactions **occur every day all around us. A chemical reaction is a process where one type of substance is chemically converted to another substance. That fizzling toilet bowl cleaner is a chemical reaction. The fire in your fireplace is another type of chemical reaction. This experiment demonstrates a chemical reaction that's fairly common all around us.**

1. **Put the thermometer in the jar and close the lid.**
2. **Wait about 5 minutes and write down the temperature.**
3. **Remove the thermometer from the jar.**
4. **Soak a piece of steel wool in vinegar for one minute.**
5. **Squeeze the vinegar out of the steel wool pad. Wrap the steel wool around the bulb of the thermometer.**
6. **Place the thermometer and steel wool back into the jar and close the lid.**
7. **Wait 5 minutes.**
8. **Now take a look at the temperature.**

What happened to the temperature?

Did you notice anything about the steel wool?

Why do you think the temperature changed the way that it did?

How is this an example of a chemical reaction?