

BALANCING EQUATIONS INQUIRY

READ THIS!

You are about to embark on a dangerous lab that includes fire, toxic gas, and explosions. **If at anytime you decide to be anything less than awesome you will leave the room.** This lab is NOT to be taken lightly, the resulting reaction will produce a poisonous gas and flames. Serious harm could occur if you are not 100% focused. Serious fun WILL occur if you follow the instructions and use your brain!
Good luck.

Purpose: To introduce how to _____.

Hypothesis: When we place _____ into a confined space, allowing the liquid to change to a _____ and adding a catalyst, the reaction that will occur is _____.

Materials:

Safety:

1. ALWAYS wear _____.
2. Long _____ and _____ must be _____.
3. Never put your _____ over the _____.
4. Never _____ in the _____.
5. Don't be _____.
6. Respect _____!!!!

Information you NEED to know BEFORE you conduct the lab:

1. The reaction that will occur is _____, which means it will release _____.
2. The chemical _____ is extremely _____ and once denatured will produce a poisonous, flammable gas.
3. Extreme _____ should be taken when conducting this _____.

Procedure:

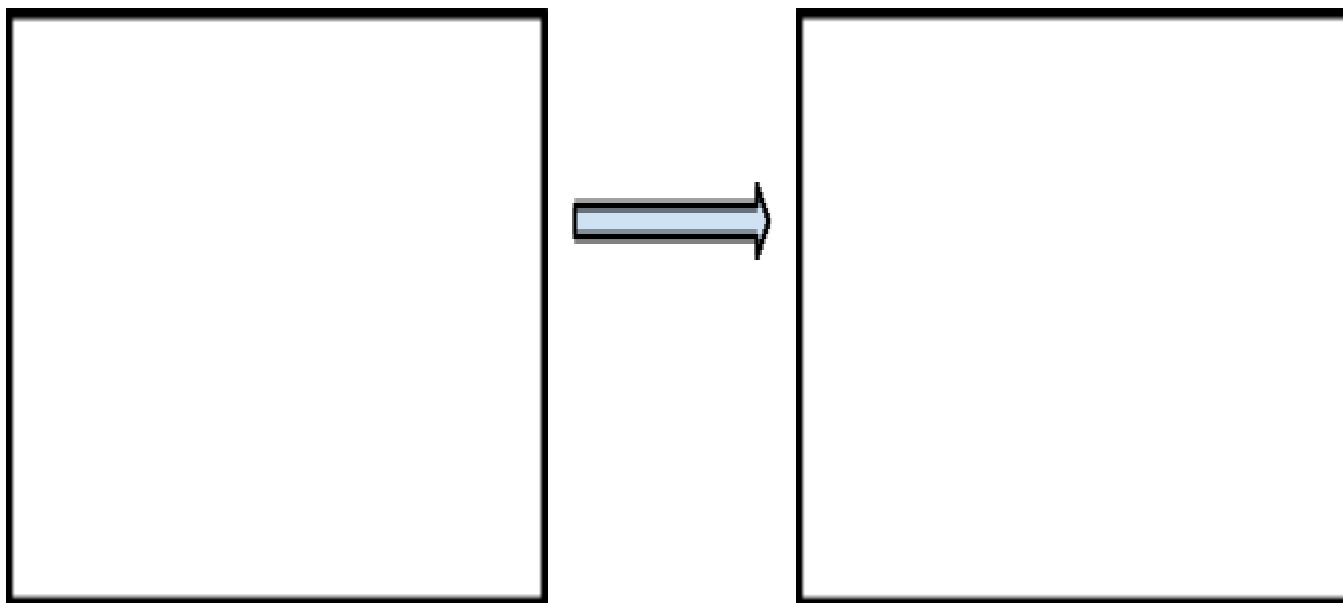
1. Using a _____ add _____ mL of _____ to the bottle.
2. Quickly and _____ place the cap on the bottle.
3. Carefully _____ and _____ the bottle for _____ minutes to _____ the isopropyl alcohol.
4. Follow the safety precautions and _____ the ignition hole.

BALANCING THE EQUATION

Here is the basic reaction that is occurring



Individually list the **elements** that are in the equation above. For example, if there are 3 carbons, list carbon 3 times. List the elements on each side.



What do you notice about the equation now that you have individually listed the elements???? Explain why this is amazing.

What does this prove?!?!

Based on this experiment, what does it mean to balance an equation??