***FPS - POE – What type of reaction?!***

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

We will be *predicting*, *observing*, and *explaining* a reaction involving **hydrogen peroxide(H2O2)**.

1. What do you know about hydrogen peroxide? Write your answer and then compare with your neighbor.
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2. What is a catalyst?
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3. Now, we will add the materials together, using a catalyst. Write down the substances we will be using.

4. We will predict, observe, and explain. For each section, please write your answers quietly, and then compare with your neighbor.
***P****redict – What do you think will happen?*I think that the reaction of the hydrogen peroxide will…
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***O****bserve – What happened? Be specific! What did you see, hear, smell…*The reaction looked like: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
I also noticed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***E****xplain – Why did this happen? Use CHEMISTRY vocab!!*The reaction is most likely a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction.
I think it is this type of reaction because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
This reaction was (endo/exo) thermic. I knew this because \_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will conduct a few reactions in your groups. You will only be given the reactants—your job is to *predict* the products, *observe* the properties of the chemical reactions and the final products, and then *explain* why you know this reaction is either a synthesis, a decomposition, a single-replacement, a double-replacement, or combustion.

GOGGLE and APRONS must be worn for the entire lab. Be very cautious of contamination—if your reactions are cross-contaminated, it will be nearly impossible to predict the correct products and make good observations. Use only the pipettes for the marked substances. Try not to get any solutions on your hands. If you do, wash them immediately.

Substances: Aluminum Copper nitrate Hydrochloric acid

 Potassium iodide Sodium Hydroxide