**Name:**

**Date:**

**School:**

**Facilitator:**

3.02 Combustion Questions

**Complete the On Fire Virtual Lab and read the lab’s Background Essay, both linked on the Task page. Answer the following questions about the combustion reactions discussed in the interaction.**

1. To initiate and sustain combustion, what 3 things are needed?
2. Combustion of hydrogen:
   1. In a couple of complete sentences, describe what happens during the combustion of hydrogen.

* 1. What are the steps that occur during the combustion of hydrogen?
     1. Step 1:
     2. Step 2:
     3. Step 3:
     4. Step 4:

1. Combustion of methane:
   1. What is methane and what is its chemical formula?

* 1. Compare and contrast the combustion of methane and the combustion of hydrogen in 2-3 complete sentences.

* 1. What 3 molecules are the products of methane combustion?

1. In the flame experiment, what is the soot from the candle primarily composed of?