**Name:**

**Date:**

**School:**

**Facilitator:**

4.03 Combustion Lab

**Directions: Visit the link on the task page and complete the virtual lab. First, read the introduction. After you have read the introduction, read through the four simulations that deal with combustion, burning, and flames. Finally, answer the following questions about what you learned.**

1. What is the difference between a basic oxidation reaction and combustion?
2. What 3 things are needed for combustion to take place?
3. What supplies the heat needed to strike the match?
4. What is the threshold temperature at which oxygen will rapidly unite with the fuel called?
5. Why does the fire spread from the head of the match to the stick after being ignited?
6. What has to happen for combustion to take place? (Hint: heat from reaction vs. ignition heat.)
7. What two products are produced during the combustion of methane? How many molecules of each?
8. What harmful byproduct is produced when there is not enough oxygen present for complete combustion? Describe how this harmful byproduct can affect humans.
9. What actually burns when solids or liquids are set on fire?
10. What is a flame?