

# Combustion of Metal Lab

- Research Question: What happens in the combustion of metal?

- Introduction:

In this experiment we will be putting iron fillings through a combustion reaction.

- Procedure:

First, place aluminum foil under an oil lamp. Next, fill the oil lamp with ethanol and light it with a match. Hold the iron fillings with a wooden stick over the flame being careful not to dump it in the lamp. Observe what happens. Once finished, snuff the flame out.

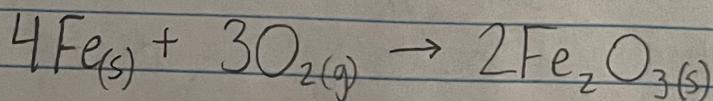
- Results:

A decent amount of the fillings have a dull and burnt look to them.

- Conclusions

The burning of metal is a chemical reaction (combustion), causing the iron to turn into iron oxide (rust).

We can create a chemical equation for the reaction:



The presence of oxygen sparks a reaction and combines the two together.

- Vocabulary:

• Combustion reaction: Rapid chemical combination of a substance with oxygen.