

## Metals and Non-metals and their Oxides: The making of acids and bases

Element burned in O <sub>2</sub> and dissolved in H <sub>2</sub> O	Metal Non-metal	Reaction with BTB	Reaction with Phenolphthalein	pH using universal indicator paper	Acid or Base	Formula
Na						
Li						
K						
Mg						
C						
S <sub>8</sub>						
P <sub>4</sub>						

- Write the equation for the formation of sulfurous acid starting with the element sulfur.
- Write the equation for the formation of sodium hydroxide starting with the element sodium.
- Write an **alternate** equation for the formation of sodium hydroxide using the element sodium and **water**.
- What type of bonding is present in metal oxides and in non-metal oxides?
- What conclusion can be drawn from this experiment.