

## Physical properties of gasses observed in this investigation

Gas has mass – a force can be exerted onto it

Cool gas keeps a flame from rising

Hot gas expands and rises

## Chemical properties of lighter fluid observed in this investigation

Flammable-when combined with oxygen (O<sub>2</sub>) and heat it burns

### Chemical Reaction:

Reactant A + Reactant B + Reactant C  $\longrightarrow$  Products

paper towel + lighter fluid + O<sub>2</sub>  $\longrightarrow$  smoke + other carbon substances

As more flame is exposed to more air, the reaction increases.

A reaction continues as long as reactants and energy are available.

Exothermic reaction – gives heat to the outside