

VIDYA BHAWAN BALIKA VIDYAPEETH

STUDY MATERIAL SCIENCE

CLASS-VIII

Date : 16/09/2020

Teacher : Poonam Kumari

▶ 6. Combustion

The flames of a candle and a kerosene lamp give off light because carbon particles produced due to the incomplete combustion of wax or kerosene that burn with a glow.

The same thing can be observed in a Bunsen burner. If the air inlets at the bottom of the burner are closed, the flame becomes luminous and yellow, this is because in the absence of sufficient air, all the molecules of the gas entering the burner cannot undergo complete combustion.

Some gas molecules only break up to produce carbon particles, which glow in the heat and give off light. In any gas stove, a yellow flame indicates **incomplete combustion** and wastage of gas. A yellow flame also deposits black soot on cooking utensils. So, if the gas stove in the kitchen produces yellow flame, it is an indication that the nozzles need to be cleaned.

Incomplete combustion : combustion taking place in insufficient oxygen soot is known as incomplete combustion.

