

Pawar Public School, Nanded City, Pune

Worksheet

Science I (VIII)

Combustion and Flame

1. Enlist ten materials from your surroundings and classify them as combustible and non-combustible materials.
2. Take two paper cups. Pour some water in the first cup and keep the other empty. Now heat the two cups on two separate burners. Write your observations with explanation.
3. Calorific value of diesel is 48000 kJ/kg. How much heat will be released by 8 kg diesel?
4. Calorific value of methane is 55000 kJ/kg. What amount of methane will be required to produce 10000 kJ heat?
5. Hold a metal vessel with pair of tongs in the non-luminous zone and luminous zone of flame. What do you observe after a minute? Explain.
6. How natural fuels differ from processed fuels?
7. Give word and chemical equations for complete combustion and incomplete combustion.
8. Are combustion processes always perfect or complete? Explain.
9. What is fire extinguisher? Mention its working principles.
10. Draw a labelled diagram of the candle flame.