

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Combustion and Flame

Q1. Explain the structure of candle flame with diagram.

Ans.

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## Combustion and Flame

Q1. Explain the structure of candle flame with diagram.

Ans. A flame consists of three zones.

- i. The innermost zone of a flame is dark (or black) – It consists of hot, unburnt vapours of the combustible materials. It is the least hot part of the flame.
- ii. The middle zone of a flame is yellow – It is bright and luminous. The fuel vapours burn partially in the middle zone because there is not enough air for burning in this zone. This zone produces a moderate temperature. This zone is the major part of a candle flame.
- iii. The outer zone of a flame is blue – It is non-luminous zone. In this zone complete combustion of the fuel takes place because there is plenty of air around it. This zone has the highest temperature in the flame.

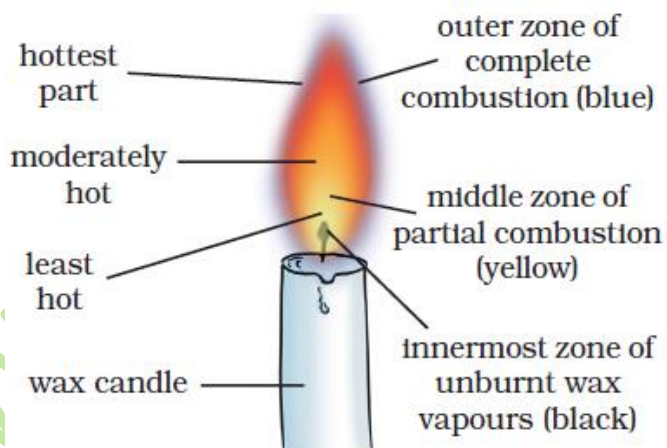


Image from NCERT