

Saitechinfo NEET-JEE Academy



The topic tree for the chapter **Thermal Properties of Matter** from the PDF provided is as follows:

1. **Introduction** - Concepts of heat and temperature.
2. **Temperature and Heat** - Definitions, understanding of temperature as an indication of hotness or coldness.
3. **Measurement of Temperature** - Different methods and devices like thermometers to measure temperature.
4. **Ideal-Gas Equation and Absolute Temperature** - Concepts of gas behavior in relation to temperature.
5. **Thermal Expansion** - Types of expansion in solids, liquids, and gases due to temperature change.
6. **Specific Heat Capacity** - Understanding the amount of heat required to raise the temperature of substances.
7. **Calorimetry** - Measurement of heat transfer in physical and chemical processes.
8. **Change of State** - Phase transitions such as melting, boiling, and freezing.
9. **Heat Transfer** - Mechanisms of heat transfer, including conduction, convection, and radiation.
10. **Newton's Law of Cooling** - The rate of temperature change in relation to surrounding temperature.