

CLASS 11

PHYSICS

REVISION NOTES

Class 11 Physics Chapter 11 Thermodynamics – Revision Notes

Quick revision notes for Class 11 Physics Chapter 11 (Thermodynamics). These Class 11 Physics Chapter 11 notes are ideal for quick revision just before exams.

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Laws

Zeroth law: defines temperature via thermal equilibrium.

First law: $\Delta Q = \Delta U + \Delta W$.

Second law: heat doesn't spontaneously flow cold $\rightarrow$ hot; no 100% efficient engine.

Processes

Isothermal ($\Delta U = 0$), Adiabatic ($\Delta Q = 0$), Isochoric ($\Delta W = 0$), Isobaric (constant P).

Heat Engines

$\eta = 1 - Q_2/Q_1$; Carnot: $\eta = 1 - T_2/T_1$.

One-Line Summary

Thermodynamics governs energy exchange as heat and work, with the first law conserving energy and the second law restricting the direction of spontaneous heat flow and limiting engine efficiency.

Class 11 Physics Chapter 11 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Physics Chapter 11 Solutions](#) and [Class 11 Physics Chapter 11 Extra Questions](#).

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