

CLASS 11

PHYSICS

REVISION NOTES

Class 11 Physics Chapter 12 Kinetic Theory – Revision Notes

Quick revision notes for Class 11 Physics Chapter 12 (Kinetic Theory). These Class 11 Physics Chapter 12 notes are ideal for quick revision just before exams.

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Ideal Gas

$$PV=nRT; R=8.314 \text{ J/(mol}\cdot\text{K)}.$$

$$P=(1/3)\rho v_{\text{rms}}^2.$$

Temperature and Energy

$$\text{Average KE per molecule}=(3/2)k_{\text{B}}T.$$

Equipartition: each DOF contributes $(1/2)k_{\text{B}}T$.

Degrees of Freedom

Monatomic: 3; Diatomic (moderate T): 5.

One-Line Summary

Kinetic theory explains macroscopic gas behaviour (pressure, temperature) as a result of the random motion and collisions of gas molecules, linking temperature directly to average molecular kinetic energy.

Class 11 Physics Chapter 12 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Physics Chapter 12 Solutions](#) and [Class 11 Physics Chapter 12 Extra Questions](#).

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