

CLASS 11

PHYSICS

REVISION NOTES

Class 11 Physics Chapter 5 Work, Energy and Power – Revision Notes

Quick revision notes for Class 11 Physics Chapter 5 (Work, Energy and Power). These Class 11 Physics Chapter 5 notes are ideal for quick revision just before exams.

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Key Formulas

Work: $W = Fd \cos\theta$.

$KE = \frac{1}{2}mv^2$; Gravitational $PE = mgh$; Spring $PE = \frac{1}{2}kx^2$.

Work-energy theorem: $W = \Delta KE$.

Conservation of Energy

$KE + PE = \text{constant}$ (no non-conservative forces).

Collisions

Elastic: momentum + KE conserved.

Inelastic: only momentum conserved.

Power

$P = W/t = F \cdot v$; SI unit watt; 1 HP = 746 W.

One-Line Summary

Work, energy, and power describe how forces transfer energy to bodies, with mechanical energy conserved in ideal (frictionless) systems and different collision types conserving momentum with or without kinetic energy.

Class 11 Physics Chapter 5 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Physics Chapter 5 Solutions](#) and [Class 11 Physics Chapter 5 Extra Questions](#).

See also: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#)

Practice more: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#)

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