

Study Topics for Exam 2

Chapter 1

- A good understanding of the concept of "work".
- Simple problems based on the relationship between force, distance and work:

$$\text{Work} = \text{Force} \times \text{Distance} \quad (\text{Force \& Distance are parallel or antiparallel})$$

- Power as the rate at which work is done:

$$\text{Power} = \frac{\text{Work}}{\text{Time}}$$

- Energy and its relationship to work. Different forms of energy: Elastic potential energy, Gravitational potential energy and kinetic energy.
- Simple problems based on the following:

$$\begin{aligned} \text{Gravitational and Potential Energy} &= \text{Weight} \times \text{Height} \\ \text{Kinetic Energy} &= \frac{1}{2} \times (\text{Mass}) \times (\text{Speed})^2 \end{aligned}$$

- Simple applications of the work – energy theorem and the conservation of energy principle.

Chapter 2

- Oscillations as a periodic motion. Understanding of Time Period and Frequency and the relationship between them:

$$\text{Frequency} = \frac{1}{\text{Time Period}} \quad \text{or} \quad \text{Time Period} = \frac{1}{\text{Frequency}}$$

- Wave motion and transfer of energy. Classification of waves as transverse or longitudinal.
- Understanding of the following wave characteristics: Amplitude, Wavelength, and wave speed.
- Simple problems based on the following relationship:

$$\text{Speed} = \text{Frequency} \times \text{Wavelength}$$

- Conceptual understanding of the superposition of waves and how that leads to interference and standing wave patterns. Resonance and the Doppler effect.

Section 3 Reinforcement Using Heat Answers

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