

Physics

Chapter 10: Work and Energy

Lecture/demonstration- teacher directed lecture in class

- Work $w = fxd \cos\theta$
- Kinetic energy $KE = 1/2 m \times v^2$
- Mechanical energy = KE + PE
- For moving objects $W = \Delta KE$
- Power $P = W/t$
- Mechanical Advantage $MA = F_r/F_e$
- Ideal Mechanical Advantage $IMA = D_e/D_r$
- Efficiency $e = W_o/W_i \times 100$ or $e = MA/IMA \times 100$

Journal Work

☐

Define the **vocabulary terms** from the chapter in your journal. Read each section and answer select **Section Review** questions in the chapter (#1-31) odds in your journal. Self-check answers with key in back of book.

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Answer select **Assessment** questions as needed to review and prepare for exam (#35-87).

Classroom Work

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Rube Goldberg Machine

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Exam

Turn in completed **journal** and classwork with completed exam.

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