Chapters/ Sections will be Covered

Book: Fundamentals of Physics by David Halliday, Jearl Walker, and Robert Resnick

Chapter Title: Potential Energy and Conservation of Energy

Sections: Work Done on a System by an External Force
Conservation of Energy

Probable Mid-term Questions: Lecture 11

Distinguish the conservation of energy for an open and isolated system.

Class Activity: Math Problem #1

In a dart gun, a spring with $k = 400.0\ N/m$ is compressed 8.0 cm when the dart (mass $m = 20.0\ g$) is loaded. What is the muzzle speed of the dart when the spring is released? (Ignore friction).

Mid-term Exam Preparation

Syllabus: L1-L11
Check: 'Probable Mid-term Questions', In-Class Math Exercise, & Practice Problems

Diagram:
If a diagram is required, you must draw one.

Mathematical Problem:
1) Unit
2) Correct answer
3) Multiple mathematical steps missing

Others:
Formula Tips
Calculator/ Pencil/ Pen