

Energy Study Guide

The “big idea” for our energy unit is: *Energy is found in different forms, is conserved, and has the ability to do work.* Below is a list of all the problem sets and other work from the unit. Any of the questions from the unit would be fair game for the test, but if you’re just looking for a select few to highlight some key concepts, I’d recommend doing the following...

Problem Set 3.1 (Work)

- Do #5 and #8.

Problem Set 3.2 (Gravitational Potential Energy)

- Do #3.

Problem Set 3.3 (Kinetic Energy)

- Do #1 and #3.

Problem Set 3.4 (Conservation of Energy)

- This is an important topic! Do #8 and #10.

Problem Set 3.5 (Power)

- Do #1 and #3.

Stairmaster Activity

- Give yourself a break. You deserve it!

Problem Set 3.6 (Efficiency)

- Do #1.

Problem Set 3.7 (Thermal Energy)

- Do #1 and #3.

Lesson 3.8 (Electric Circuits Hands-on Intro)

- Give yourself a break.

Problem Set 3.9 (Ohm’s Law)

- Do #2, #4, #5, #7.

Activity 3.10 (Kirchoff’s Laws)

- Give yourself a break. But not a big one. You’ve had two already!

Problem Set 3.10 (Kirchoff’s Laws)

- This is an important topic! Do one that has resistors in series, one that has resistors in parallel, and one that has both in the same circuit.

Problem Set 3.11 (Electromotive Force)

- Do #3.

Another really good study tool: look over your quiz!