

UNIT 6: WORK, ENERGY AND SIMPLE MACHINES STUDY GUIDE

*Complete this study guide on a **SEPARATE SHEET OF PAPER** and submit on the day of the test for up to 10 points extra credit on the test.*

This study guide is meant to be an aide in your studying. It is not intended to be the only thing you study. In order to be properly prepared for this unit test, which covers Chapters 4, 5, and 6 of your textbook, please review all classwork activities, notes and homework assignments.

Define the following terms:

Chemical energy

Elastic potential energy

IMA

Power

Temperature

Conduction

Gravitational potential energy

Kinetic energy

Radiation (heating)

Thermal energy

Convection

Heat

MA

Specific heat

Work

Questions:

1. What are the SI units for time, force, work, power, heat, temperature, energy and specific heat?
2. What are the two conditions for doing work?
3. What are the equations for calculating work and power?
4. What is the law of conservation of energy? How does it relate to kinetic and gravitational potential energy?
5. What are the equations for kinetic and gravitational potential energy?
6. What are the six types of simple machines?
7. What is the difference between an actual machine and an ideal machine?
8. How can the efficiency of a machine be increased?
9. What are the first and second laws of thermodynamics? What **MUST** be done if thermal energy is to flow from the cooler to the warmer regions of the system?
10. Distinguish between temperature, thermal energy and heat.
11. What are the differences between the transfer of heat energy by conduction, convection and radiation? What is an insulator?
12. What kind(s) of materials are good conductors of heat? What kinds of materials are poor conductors?
13. What state(s) of matter must a substance be in for heat transfer to take place by convection?
14. What is specific heat? What does a high specific heat tell you about how fast something will heat up?
15. What is the difference between a heat engine and a heat mover? Give one example of each.

Energy Work And Simple Machines Study Guide

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