

Chapter 14 Work Power Machines Answers



Chapter 14 Work Power Machines

the value of a machine with friction; the ratio of the output force to the input force. ideal mechanical advantage. the maximum possible value of a machine if it were frictionless; the ratio of the input distance to the output distance.

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Chapter 14 Work, Power, and Machines Summary 14.1 Work and Power For a force to do work on an object, some of the force must act in the same direction as the object moves. If there is no movement, no work is done. • Work is the product of force and distance. • Work is done when a force moves an object over a distance.

Chapter 14 Work, Power, and Machines

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Chapter 14 Work, Power, and Machines 14.1 Work and Power Work is the product of force and distance. You can calculate work by multiplying the force exerted on the object times the distance the object moves. $Work = Force \times Distance$; $W = Fd$ Work is done when a force moves an object over a distance.

Chapter 14 Work, Power, and Machines 14.1 Work and Power ...

Chapter 14 Work, Power, and Machines Section 14.1 Work and Power (pages 412–416) This section defines work and power, describes how they are related, and explains how to calculate their values. Reading Strategy (page 412) Relating Text and Visuals As you read, look carefully at Figures 1 and 2 and read their captions. Complete the table by describing the work shown in each figure.

Chapter 14 Work, Power, and Machines Section 14.1 Work and ...

Ch 14: Chapter 14: Work, Power, and Machines 1. Work: Definition, Characteristics, and Examples. 2. Work Done by a Variable Force. 3. Work-Energy Theorem: Definition and Application. 4. Power: Definition and Mathematics. 5. Simple Machines: Lever, Inclined Plane & Pulley. - Definition, Types & ...

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You have just designed a machine that uses 1000J of work from a motor for every 800J of useful work the machine supplies. What is the efficiency of your machine? If a machine has an efficiency of 40%, and you do 1000J of work on the machine, what will be the work output of the machine? Section 14.4: Simple Machines

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