

## 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. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Figure	Direction of Force	Direction of Motion	Is Work Done?
1			
2A			
2B			
2C			

**What Is Work? (pages 412–413)**

- In science, work is done when a(n) \_\_\_\_\_ acts on an object in the direction the object moves.
- Why isn't work being done on a barbell when a weight lifter is holding the barbell over his head? \_\_\_\_\_  
\_\_\_\_\_
- Describe what conditions of force and motion result in maximum work done on an object. \_\_\_\_\_  
\_\_\_\_\_
- Is the following sentence true or false? A vertical force does work on an object that is moving in a horizontal direction. \_\_\_\_\_

**Calculating Work (pages 413–414)**

- In science, work that is done on an object can be described as the force acting on the object multiplied by the \_\_\_\_\_ the object moves.
- Circle the letter of the correct form of the work equation to use when determining the distance an object moves as a result of a force applied to it.
  - Distance = Force  $\times$  Work
  - Distance =  $\frac{\text{Force}}{\text{Work}}$
  - Distance = (Force)<sup>2</sup>
  - Distance =  $\frac{\text{Work}}{\text{Force}}$

# Physical Science Reading And Study Workbook Chapter 14answers

**Clemens Wendtner**



## **Physical Science Reading And Study Workbook Chapter 14answers:**

## Embracing the Melody of Term: An Mental Symphony within **Physical Science Reading And Study Workbook Chapter 14answers**

In a global used by displays and the ceaseless chatter of quick conversation, the melodic splendor and mental symphony created by the published term usually diminish into the back ground, eclipsed by the relentless sound and distractions that permeate our lives. However, situated within the pages of **Physical Science Reading And Study Workbook Chapter 14answers** a marvelous literary treasure overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that captivating masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths with this poignant assessment, we can investigate the book is key harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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