

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)

1. In science, work is done when a(n) _____ acts on an object in the direction the object moves.
2. Why isn't work being done on a barbell when a weight lifter is holding the barbell over his head? _____
3. Describe what conditions of force and motion result in maximum work done on an object. _____
4. 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)

5. 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.
6. 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.
 - a. Distance = Force \times Work
 - b. Distance = $\frac{\text{Force}}{\text{Work}}$
 - c. Distance = (Force)²
 - d. Distance = $\frac{\text{Work}}{\text{Force}}$

Physical Science Reading And Study Workbook Chapter 142 Answers

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Physical Science Reading And Study Workbook Chapter 142 Answers:

Physical Science Reading And Study Workbook Chapter 142 Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Physical Science Reading And Study Workbook Chapter 142 Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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