

Concept-Development Practice Page **9-1**

Work and Energy

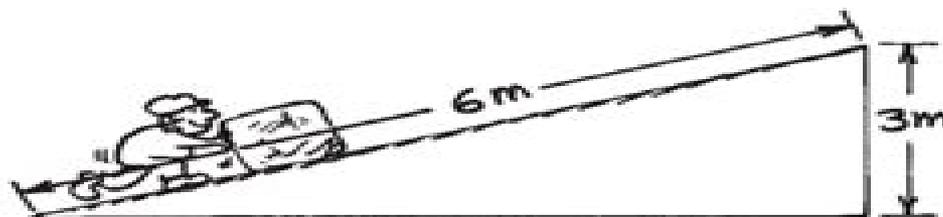
1. How much work (energy) is needed to lift an object that weighs 200 N to a height of 4 m?
800 J

2. How much power is needed to lift the 200-N object to a height of 4 m in 4 s?
200 W

3. What is the power output of an engine that does 60,000 J of work in 10 s?
6 kW

4. The block of ice weighs 500 newtons.
 - a. What is the mechanical advantage of the incline?
2:1

 - b. How much force is needed to push it up the incline (neglect friction)?
250 N



5. All the ramps are 5 m high. We know that the KE of the block at the bottom of the ramp will be equal to the loss of PE (conservation of energy). Find the speed of the block at ground level in each case. [*Hint:* Do you recall from earlier chapters how long it takes something to fall a vertical distance of 5 m from a position of rest (assume $g = 10 \text{ m/s}^2$)? And how much speed a falling object acquires in this time? This gives you the answer to Case 1. Discuss with your classmates how energy conservation gives you the answers to Cases 2 and 3.]



Case 1: Speed = 10 m/s Case 2: Speed = 10 m/s Case 3: Speed = 10 m/s

Block on A reaches bottom first; greater acceleration and less ramp distance. Although it will have the same speed at bottom, the time it takes to reach that speed is different!

CONCEPTUAL PHYSICS

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AW Chickering



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Table of Contents Physics Concept Development Practice Page Answers Work

1. Understanding the eBook Physics Concept Development Practice Page Answers Work
 - The Rise of Digital Reading Physics Concept Development Practice Page Answers Work
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Concept Development Practice Page Answers Work
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Concept Development Practice Page Answers Work
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Concept Development Practice Page Answers Work
 - Personalized Recommendations
 - Physics Concept Development Practice Page Answers Work User Reviews and Ratings
 - Physics Concept Development Practice Page Answers Work and Bestseller Lists
5. Accessing Physics Concept Development Practice Page Answers Work Free and Paid eBooks
 - Physics Concept Development Practice Page Answers Work Public Domain eBooks
 - Physics Concept Development Practice Page Answers Work eBook Subscription Services
 - Physics Concept Development Practice Page Answers Work Budget-Friendly Options
6. Navigating Physics Concept Development Practice Page Answers Work eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Concept Development Practice Page Answers Work Compatibility with Devices
 - Physics Concept Development Practice Page Answers Work Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Concept Development Practice Page Answers Work
 - Highlighting and Note-Taking Physics Concept Development Practice Page Answers Work
 - Interactive Elements Physics Concept Development Practice Page Answers Work

8. Staying Engaged with Physics Concept Development Practice Page Answers Work
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Concept Development Practice Page Answers Work
9. Balancing eBooks and Physical Books Physics Concept Development Practice Page Answers Work
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Concept Development Practice Page Answers Work
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Concept Development Practice Page Answers Work
 - Setting Reading Goals Physics Concept Development Practice Page Answers Work
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Concept Development Practice Page Answers Work
 - Fact-Checking eBook Content of Physics Concept Development Practice Page Answers Work
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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