

**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

Conceptual Physical Science Explorations Answers

Chapter 7 Gravity

Rita Vaynshteyn



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Light and Waves Steven S. Andrews, 2023-05-13 This book explores light and other types of waves using this as a window into other aspects of physics It emphasizes a conceptual understanding using examples chosen from everyday life and the natural environment For example it explains how hummingbird feathers create shimmering colors how musical instruments produce sound and how atoms stick together to form molecules It provides a unique perspective on physics by emphasizing commonalities among different types of waves including string waves water waves sound waves light waves the matter waves of quantum mechanics and the gravitational waves of general relativity This book is targeted toward college non science majors advanced high school students and adults who are curious about our physical world It assumes familiarity with algebra but no further mathematics and is classroom ready with many worked examples exercises exploratory puzzles and appendices to support students from a variety of backgrounds

Secretary's Annual Report to Congress United States. Department of Energy, 1987 **Science Books & Films**, 1981 The Leading Edge, 2002-05 *New Scientist*, 1990 **Gravity (True Books: Physical Science)** Perfection Learning Corporation, 2019 **What Is Gravity?: The Enigma of Motion Or Its Operating Systems**

and the Origin of Nuclear Gravitational Forces Rita Vaynshteyn,2018-09-02 Physics and philosophy seek to understand the reality of nature the philosophical roots of physical events that bind the discrete parts of matter into one system

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