

**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**

# Concept Development 7 1 Conceptual Physics Answers

**M Mark**



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4M 2005 - First International Conference on Multi-Material Micro Manufacture Stefan Dimov, Wolfgang Menz, 2005-12-07  
4M 2005 First International Conference on Multi Material Micro Manufacture **El-Hi Textbooks and Serials in Print**, 2003  
**AECon 2020** Saefurrohman, Malim Muhammad, Heri Nurdiyanto, 2021-08-19 The 6th Asia Pacific Education and Science Conference AECON 2020 was conducted on 19 20 December 2020 at Universitas Muhammadiyah Purwokerto Purwokerto Indonesia The Theme of AECON 2020 is Empowering Human Development Through Science and Education The goals of AECON 2020 is to establish a paradigm that emphasizes on the development of integrated education and science through the integration of different life skills in order to improve the quality of human development in education and science around Asia Pacific nations particularly Indonesia **Technical Books in Print**, 1974 **Resources in Education**, 1994  
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**Energy Research Abstracts**, 1980 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes *Recording for the Blind & Dyslexic, ... Catalog of Books*, 1996 **Government Reports Announcements & Index**, 1989-04 **Thinking** D. N. Perkins, J. Lochhead, J. C. Bishop, 2018-10-24 First published in 1987 Routledge is an imprint of Taylor Francis an informa company **2007 Physics Education Research Conference** Leon Hsu, Charles Henderson, Laura McCullough, 2007-11-26 This text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research  
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