

Chapter 8 Momentum

Exercises

8.1 Momentum (page 125)

1. Define momentum. the mass of an object multiplied by its velocity
2. What is the equation for momentum? momentum = mass \times velocity = mv
3. A moving object can have a large momentum if it has a(n) large mass, a(n) high speed, or both.

8.2 Impulse Changes Momentum (pages 125–129)

4. Is the following sentence true or false? If the momentum of an object changes, either the mass or the velocity or both change.
true
5. If a force is increased on an object, what happens to the velocity and the momentum?
There is a greater change in velocity and momentum.
6. The change in momentum depends on the force that acts and the length of time it acts.
7. What is the short-hand notation for impulse? impulse = $F\Delta t$
8. What is the formula that relates impulse and change in momentum?
 $F\Delta t = \Delta(mv)$
9. Explain why a baseball player follows through with his or her swing.
The baseball player wants to apply the greatest force possible for as long as possible so that the ball goes as far as possible.
10. Is the following sentence true or false? By hitting a soft object, such as a haystack, instead of a hard object, such as a concrete wall, you extend the contact time in which the momentum is brought to zero.
true
11. Circle the letter of each sentence that is true about impulse and momentum.
 - a. When jumping from an elevated position down to the ground, you should keep your legs stiff to decrease the momentum.
 - ☒ b. A wrestler thrown to the floor should extend his time hitting the mat by relaxing his muscles and spreading the impulse to his foot, knee, hip, ribs, and shoulder.
 - ☒ c. When a boxer gets punched, she should move her head away from the punch to increase the contact time and reduce the force.
 - ☒ d. A dropped dish is more likely to survive a fall on carpet rather than concrete, because the softness of the carpet leads to increased contact time.

Conceptual Physical Science Practice Sheet Chapter 1

Motion Answers

**Paul G. Hewitt, John Suchocki, Leslie A.
Hewitt**



Conceptual Physical Science Practice Sheet Chapter 1 Motion Answers:

Practice Book: Conceptual Physical Science Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2003-07 This skill building workbook helps students build their confidence and understanding of concepts in the textbook Answers to all questions are provided at the back of the workbook

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Conceptual Physics Paul G. Hewitt, 1990

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Physics, Volume 1 Robert Resnick, David Halliday, Kenneth S. Krane, 2002 Each chapter includes questions and problems

Physics John D. Cutnell, 1998

Holt Physics Raymond A. Serway, 2002

Proceedings of the Eighteenth Annual Conference of the Cognitive Science Society Garrison W. Cottrell, 2019-02-21 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 18th annual meeting of the Cognitive Science Society Papers have been loosely grouped by topic and an author index is provided in the back In hopes of facilitating searches of this work an electronic index on the Internet s World Wide Web is provided Titles authors and summaries of all the papers published here have been placed in an online database which may be freely searched by anyone You can reach the Web site at <http://www.cse.ucsd.edu/events/cogsci96/proceedings> You may view the table of contents for this volume on the LEA Web site at <http://www.erlbaum.com>

[Bulletin of the Atomic Scientists](#), 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

New Scientist, 1991

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Conceptual Physical Science, Practice Book Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2002-02 Features more than 60 pages of practice problems with answers at the back of the workbook

Practice Book for Conceptual Physical Science Paul Hewitt, John Suchocki, Leslie Hewitt, 2016-01-06 This skill building workbook helps students build their confidence and understanding of concepts in the textbook by providing additional questions and activities Answers to all questions are provided at the back of the workbook

[Practice Book for Conceptual Physical Science](#) Paul G. Hewitt, John A. Suchocki, Leslie Hewitt, 2007-12-18 This skill building workbook helps students build their confidence and understanding of concepts in the textbook by providing additional questions and activities Answers to all questions are provided at the back of the workbook

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Practice Book for Conceptual Physics Fundamentals Paul Hewitt, 2007-08-09 This valuable study tool features answers to odd numbered Exercises and Problems from the text to help build confidence and understanding of the key concepts in the textbook

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