

## Answers and Explanations - Conceptual Physics Questions

### 1. 1. C) It continues moving at constant velocity

Explanation: According to Newton's First Law, an object in motion remains in motion unless acted upon by an external force. Since no external force is acting, the spacecraft will keep moving at constant velocity.

### 2. 2. B) The force from the ground on the horse is unbalanced

Explanation: The horse moves forward because it pushes backward on the ground, and the ground pushes forward on the horse due to Newton's Third Law.

### 3. 3. C) It remains constant

Explanation: In free fall, the only force acting is gravity, which provides a constant acceleration of  $9.8 \text{ m/s}^2$  downward.

### 4. 4. C) The applied force equals the friction force

Explanation: Since the box moves at constant velocity, there is no net force, meaning the applied force must balance the frictional force.

### 5. 5. A) Increases

Explanation: The acceleration down an incline is given by  $g \cdot \sin(\theta)$ . As the incline angle  $\theta$  increases,  $\sin(\theta)$  increases, leading to greater acceleration.

### 6. 6. C) Both exert equal forces on each other

Explanation: By Newton's Third Law, the car and truck exert equal and opposite forces on each other during a collision.

### 7. 7. C) It moves slightly backward

Explanation: By Newton's Third Law, when the person jumps forward, the boat experiences an equal and opposite reaction force moving it backward.

### 8. 8. B) Slow down

Explanation: A force opposite to motion causes negative acceleration (deceleration), reducing the object's speed.

# Chapter 5 Conceptual Physics Answers

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**Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20** Todd Ruskell, 2008

**Conceptual Physics Problem Solving Exercises in Physics** Se Jennifer Bond Hickman, 1998-04-03

**Conceptual Physics**, 1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981

**Conceptual Physics--a New Introduction to Your Environment**, 1981

**Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers** John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

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*Spaceflight Revolution* James R. Hansen,1995     **Evaluation Package for Cutnell and Johnson Physics 8E** Cutnell,2008-10-28     Teaching Assistant Manual K. A. Harper,Sandra Doty,2007-08-15     *Science Instruction in the Middle and Secondary Schools* Eugene L. Chiappetta,Thomas R. Koballa,2002 This science methods textbook is designed to prepare middle and high school science teachers to help students become scientifically and technologically literate by first helping them understand the elements of science reform and then supporting their efforts Features new to the fifth edition include Open cases and vignettes that illustrate how science teachers help students construct their own understanding Stop and Reflect exercises throughout each chapter to help readers contextualize and reflect upon what was read Expanded coverage of teaching students with special needs and equity in science teaching and learning Discussion of a variety of alternative and authentic assessment methods     **Physics** Art Hobson,2007 For a one semester course in liberal arts physics Hobson has four unifying themes How do we know the significance of post Newtonian physics modern physics energy and the social context of physics These themes become evident in the writing and pedagogy throughout the fourth edition

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