

Review questions

2. What two units of measurement are necessary for describing speed?

Ans. Distance and time.

3. What kind of speed is registered by an automobile speedometer?

Ans. Instantaneous speed.

5. What is the average speed in kilometers per hour for a horse that gallops a distance of 15 km in a time of 30 min?

Ans.  $\frac{15\text{km}}{\frac{1}{2}\text{hr}} = 30 \frac{\text{km}}{\text{hr}}$

6. How far does a horse travel if it gallops at an average speed of 25 km/hr for 30 min.?

Ans. Our distance rule is given by  $\Delta X = V_o t + \frac{1}{2} a t^2$ . Since there is no acceleration, the rule simplifies to  $\Delta X = V_o t = 25 \frac{\text{km}}{\text{hr}} (.5\text{hr}) = 12.5\text{km}$

7. Distinguish between speed and velocity.

Ans. Speed is the rate at which an object changes its position. Velocity is the speed and direction of an object.

8. If a car moves with constant velocity, does it also move with constant speed?

Ans. Yes.

9. If a car is moving at 90 km/hr and it rounds a corner, also at 90 km/hr, does it maintain a constant speed? A constant velocity?

Ans. It maintains a constant speed but its velocity is changing because its direction of travel is changing.

10. Distinguish between velocity and acceleration.

Ans. Velocity is the speed and direction of an object. Acceleration is the rate at which an objects changes its velocity.

11. What is the acceleration of a car that increases its velocity from 0 to 100 km/hr in 10 seconds?

Ans.  $a = \frac{\Delta V}{\Delta t} = \frac{V_f - V_i}{\Delta t} = \frac{100\text{km/hr}}{10\text{sec}} = \frac{10\text{km/hr}}{\text{sec}}$  forward.

# Conceptual Physics Ch 3

**Chiara Ferella**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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

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its details with the cosmological account This study shows how rebirth underlies Empedocles cosmic system being a structuring principle of his physics It reconstructs the proem to his physical poem and then shows that claims to disembodied existence individual identity and personal survival of death s prove central to his physics that knowledge of the cosmos is the path to escape rebirth that purifications are essential to comprehending the world and changing one s being and that the cosmic cycle with its ethical import is the ideal backdrop for Empedocles doctrine of rebirth This title is part of the Flip it Open Programme and may also be available Open Access Check our website Cambridge Core for details     *Resources in Education* ,1970-07     **Physics** John D. Cutnell,Kenneth W. Johnson,1994-08-02 This text is designed for a one year course in college physics that uses algebra and trigonometry The book has three goals to help students develop conceptual understanding of physical principles the ability to reason and problem solving skill to help students see that physics is a wonderfully integrated body of knowledge to show students that physics principles come into play over and over again in their lives     *Research in Education* ,1970-12     *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     **Nuclear Fusion** ,1999-12-12     **Supercollider 3** John Nonte,1991 The March 1991 conference had as its theme Getting Down to Business the Superconducting Supercollider project is underway moving from the planning stage to construction to development and procurement of equipment and to resolution of technical issues involved in areas such as theory controls     **Teaching Content Reading and Writing** Martha Rapp Ruddell,1993     Microcomputer-Based Labs: Educational Research and Standards Robert Tinker,1996-12-13 Proceedings of the NATO Advanced Research Workshop on Microcomputer Baded Labs Educational Research and Standards held in Amsterdam The Netherlands November 9 13 1992     Energy for a Technological Society Joseph Priest,1979     **The CALLA Handbook** Anna Uhl Chamot,J. Michael O'Malley,1994 Includes units on science mathematics social studies and literature and composition     *Some Problems of Philosophy* William James,1916     **The Concept of Truth** Leslie Armour,1969     **Cardiopulmonary System Structure and Function** Daniel R Richardson,David C. Randall,Dexter F Speck,1998-03-13 Cardiopulmonary System Structure and Function is based on the understanding that the study of physiology is conceptual in nature As a result this book carefully and methodically develops the most important concepts underlying the functions of the heart lungs and circulation ie the cardiopulmonary system and demonstrates the integrated nature of the entire system By taking this approach medical

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**Textbooks and Serials in Print** ,2003 *American Journal of Physics* ,1977

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