

Physics Concepts Study Guide

Distance vs. Displacement

- Distance is the total length of travel
 - Measured in meters
- Displacement is the change in position with direction
 - Measured in meters
 - Displacement = final position - initial position
 - $\Delta X = X_f - X_i$



Speed and Velocity

- Average Speed is the total distance over time
 - o Measured in meters per second (m/s)
- Average Velocity is the displacement over total time
 - o Measured in meters per second (m/s)
 - o $V_{avg} = \Delta X / \Delta t = (X_f - X_i) / (t_f - t_i)$
- Instantaneous Velocity is the displacement over time
 - o The velocity at a certain instant of time
 - o Measured in meters per second (m/s)
- Note: When velocity is constant, the average velocity is equal to the instantaneous velocity at any time.

Acceleration

- Average acceleration is the rate of change of velocity with time
 - o Measured in m/s²
 - o $A_{avg} = \Delta V / \Delta t = (V_f - V_i) / (t_f - t_i)$
- Instantaneous Acceleration is the velocity per time
 - o The acceleration at a certain instant of time
 - o Measured in m/s²
- Does not depend on mass

Variations of equations:

$$V_{avg} = \frac{1}{2} (V_i + V_f) \qquad V_f = V_i + at \text{ (when } t_i = 0)$$

$$\Delta X = V_i t + \frac{1}{2} at^2 \qquad X_f = X_i + V_i t + \frac{1}{2} at^2$$

$$V_f^2 = V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}$$

* Note: When linear equations are vertical, accelerations will always be 9.81 m/s² DOWN

- When an object is thrown vertically upward then its speed on returning to its original starting point is the same as its initial speed.

Vectors

- Any quantity that refers to both a magnitude (number) and a direction
 - Displacement and Velocity are examples of vectors
- In projectile launch problems:



Study Guide Conceptual Physics

Patrick Vollmar



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Student Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition John R. Gordon, Ralph V.

McGraw, 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.

The Psychology of Learning Science Shawn M. Glynn, Bruce K. Britton, Russell H. Yeany, 2012-11-12. Focusing on the teaching and learning of science concepts at the elementary and high school levels, this volume bridges the gap between state-of-the-art research and classroom practice in science education. The contributors, science educators, cognitive scientists, and psychologists, draw clear connections between theory, research, and instructional application with the ultimate goal of improving science teachers' effectiveness in the classroom. Toward this end, explicit models, illustrations, and examples drawn from actual science classes are included.

2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21. The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education. The conference theme was Physics Education Research with Diverse Student Populations. Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community. The organizers encouraged physics education researchers who are using research-based instructional materials with non-traditional students at either the pre-college level or the college level to share their experiences as instructors and researchers in these classes.

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Science Books & Films ,1989 **American Journal of Physics** ,2000 **AISTSSE 2018** Martina Restuati ,Herbert Sipahutar, Juniastel Rajagukguk, 2019-10-04 This book contains the proceedings of the The 5th Annual International Seminar on Trends in Science and Science Education AISTSSE and The 2nd International Conference on Innovation in Education Science and Culture ICIESC where held on 18 October 2018 and 25 September 2018 in same city Medan North Sumatera Both of conferences were organized respectively by Faculty of Mathematics and Natural Sciences and Research Institute Universitas Negeri Medan The papers from these conferences collected in a proceedings book entitled Proceedings of 5th AISTSSE In publishing process AISTSSE and ICIESC were collaboration conference presents six plenary and invited speakers from Australia Japan Thailand and from Indonesia Besides speaker around 162 researchers covering lecturers teachers participants and students have attended in this conference The researchers come from Jakarta Yogyakarta Bandung Palembang Jambi Batam Pekanbaru Padang Aceh Medan and several from Malaysia and Thailand The AISTSSE meeting is expected to yield fruitful result from discussion on various issues dealing with challenges we face in this Industrial Revolution RI 4 0 The purpose of AISTSSE is to bring together professionals academics and students who are interested in the advancement of research and practical applications of innovation in education science and culture The presentation of such conference covering multi disciplines will contribute a lot of inspiring inputs and new knowledge on current trending about Mathematical Sciences Mathematics Education Physical Sciences Physics Education Biological Sciences Biology Education Chemical Sciences Chemistry Education and Computer Sciences Thus this will contribute to the next young generation researches to produce innovative research findings Hopely that the scientific attitude and skills through research will promote Unimed to be a well known university which persist to be developed and excelled Finally we would like to express greatest thankful to all colleagues in the steering committee for cooperation in administering and arranging the conference Hopefully these seminar and conference will be continued in the coming years with many more insight articles

from inspiring research We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks We hope to meet you again for the next conference of AISTSSE

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Resources in Education ,1998 [Handbook of Research on the Global Empowerment of Educators and Student Learning Through Action Research](#) Slapac, Alina,Balcerzak, Phyllis,O'Brien, Kathryn,2021-05-07 The year 2020 brought an unprecedented worldwide health crisis through the COVID 19 pandemic that has been affecting all sectors including education There were questions surrounding the effectiveness of online trainings for teachers online teaching practices the motivation and engagement of students and the quality of learning and education in these times Action research emerged to address these concerns being a systematic process of inquiry using reflection within a cyclical model of planning acting implementing evaluating and continuous reflection This method of

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How People Learn National Research Council, Division of Behavioral and Social Sciences and

Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Developments in the Science of Learning with additional material from the Committee on Learning Research and Educational Practice, 2000-08-11 First released in the Spring of 1999 How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice now making a real connection between classroom activities and learning behavior This edition includes far reaching suggestions for research that could increase the impact that classroom teaching has on actual learning Like the original edition this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions When do infants begin to learn How do experts learn and how is this different from non experts What can teachers and schools do with curricula classroom settings and teaching methods to help children learn most effectively New evidence from many branches of science has significantly added to our understanding of what it means to know from the neural processes that occur during learning to the influence of culture on what people see and absorb How People Learn examines these findings and their implications for what we teach how we teach it and how we assess what our children learn The book uses exemplary teaching to illustrate how approaches based on what we now know result in in depth learning This new knowledge calls into question concepts and practices firmly entrenched in our current education system Topics include How learning actually changes the physical structure of the brain How existing knowledge affects what people notice and how they learn What the thought processes of experts tell us about how to teach The amazing learning potential of infants The relationship of classroom learning and everyday settings of community and workplace Learning needs and opportunities for teachers A realistic look at the role of technology in education

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