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The Force Concept Inventory In this section, we provide a brief account of the development of the Force Concept Inventory and its precursor, the Mechanics Diagnostic Test. History of the Force Concept Inventory The Mechanics Diagnostic Test (MDT) was first published in 1985 (Halloun and Hestenes 1985). The purpose of the test was to ascertain ...

Googling for Force Concept Inventory will return many hits. In print, an excellent introduction to PER is Edward F. Redish, Teaching Physics with the Physics Suite (Wiley, 2003), ISBN 0-471-39378-9. The first version of the test was D. Hestenes, M. Wellsand G. Swackhammer, Phys. Teach. 30, 141 (1992).

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#### Force Concept Inventory Test Answers

##### Force Concept Inventory Test Answer

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PART A: Force Concept Inventory (FCI) Time: 45 minutes This inventory probes into YOUR understanding on force and motion. It does not require any university physics for you to answer these ques-tions. By answering all the questions, you will be able to identify your Newtonian understanding of the physical events as opposed to your com-

##### Force Concept Inventory (FCI)

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##### Chapter 4. Multiple Choice Concept Tests: The Force ...

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##### The Force Concept Inventory and Adult Learners

Erratum: Force Concept Inventory-based multiple-choice test for investigating students' representational consistency [Phys. Rev. ST Phys. Educ. Res. 6, 020109 (2010)] In our paper published recently in this journal, we presented the rationale and structure of the ...

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The force concept inventory and a 10-question context-modified test were given to 647 students enrolled in introductory physics classes at the University of Arkansas. Context changes had an effect ranging from -3% to 10% on the individual questions. The average student score on the ten transformed questions was 3% higher

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#### **Concept Inventories - Exploring How Students Learn**

It is preset for the Force Concept Inventory (FCI), Test for Understanding Graphs in Kinematics (TUG-K2), Mechanics Baseline Test (MBT), and it has additional answer keys for Energy Concept Inventory (ECI) and the Conceptual Survey of Electricity and Magnetism (CSEM).

#### **Research**

The Force Concept Inventory (see Appendix) requires a forced choice between Newtonian concepts and commonsense alternatives. Table I classifies the Newtonian concepts probed in the Inventory, along with the Inventory items in which they appear. These items are the "correct" Newtonian answers to the Inventory questions.

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