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A test to assess student understanding of measurement and uncertainty has been developed and administered to more than 500 students

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at two large research universities. The aim is two-fold: 1) to assess what students learn in the first semester of introductory physics labs and 2) to uncover patterns

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in student reasoning and practice. The forty minute, eleven item test focuses on direct measurement and student attitudes toward multiple measurements. After one

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revision cycle using think-aloud interviews, the test was administered to students to three groups: students enrolled in traditional laboratory lab sections of first semester

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physics at North Carolina State University (NCSU), students in an experimental (SCALE-UP) section of first semester physics at NCSU, and students in first semester

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physics at the University of North Carolina at Chapel Hill. The results were analyzed using a mixture of qualitative and quantitative methods. In the traditional NCSU labs,

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where students receive no instruction in uncertainty and measurement, students show no improvement on any of the areas examined by the test. In SCALE-UP and at UNC, students show

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statistically significant gains in most areas of the test. Gains on specific test items in SCALE-UP and at UNC correspond to areas of instructional emphasis. Test items were grouped

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into four main aspects of performance: 'point/set' reasoning, meaning of spread, ruler reading and 'stacking.' Student performance on the pretest was examined to identify

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links between these aspects. Items within each aspect are correlated to one another, sometimes quite strongly, but items from different aspects rarely show statistically

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significant correlation. Taken together, these results suggest that student difficulties may not be linked to a single underlying cause. The study shows that current

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instruction techniques
improve student
understanding, but that
many students exit the
introductory physics lab
course without
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approaches, rather than simply plugging in an equation. The expanded problem types and scaffolded in-problem support help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills for better

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9780134878034 Mastering Physics with Pearson eText -- ValuePack Access Card -- for College Physics Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they

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contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools:

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What is effective laboratory teaching?
What does research tell us about learning in high school science labs?
How should student learning in laboratory experiences be assessed?
Do all student have access to laboratory experiences? What changes need to be made to improve

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laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates

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factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for

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laboratory experiences to be an integral part of the science curriculum and how that can be accomplished.

Sonography Exam Review: Physics, Abdomen, Obstetrics and Gynecology E-Book

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Mastering a physical concept is and should always be the goal of any lesson in a physics classroom. How to

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prove the understanding of that concept is difficult to assess. Written exams only give us a small indication of our students' competency.

However, if we ask them to demonstrate their understanding of the concept with some sort of task,

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they can prove it. This study examines whether the use of an individual lab practical performance activity the day before their written exam increased student test scores. Test scores from three separate semesters of physics classes were compared. In the first two

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semesters, the classes had a traditional review day before the exam and the lab practical was not used at all. In the second year, we introduced the lab practical on the review day as a short lab-based assessment. The results of this study indicate that the

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students who were given the lab practical scored the same statistically as the previous semesters.

America's Lab Report

The Effect of a Formal Lab Practical Performance Activity Before Written Exams on Test Scores in High School

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Physics Classes

The College Success Book