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assessment system that meets the Framework's vision should consist of assessments designed to support classroom instruction, assessments designed to monitor science learning on a broader scale, and indicators designed to track opportunity to learn. New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential. The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students.

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define and measure learning outcomes—the Measuring College Learning project—this book identifies 'essential concepts and competencies' for six disciplines. These essential concepts and competencies represent efforts towards articulating a consensus among faculty in biology, business, communication, economics, history, and sociology—disciplines that account for nearly 40 percent of undergraduate majors in the United States. Contributions from thought leaders in higher education, including Ira Katznelson, George Kuh, and Carol Geary Schneider, offer expert perspectives and persuasive arguments for the need for greater clarity, intentionality, and quality in U.S. higher education. College faculty are our best resource for improving the quality of undergraduate education. This book offers a path forward based on faculty perspectives nationwide: Clarify program structure and aims Articulate high-quality learning goals Rigorously measure student progress Prioritize higher order competencies and disciplinarily grounded conceptual understandings A culmination of over two years of efforts by faculty and association leaders from six disciplines, this book distills the national conversation into a delineated set of fundamental ideas and practices, and advocates for the development and use of rigorous assessment tools that are valued by faculty, students, and society. Improving Quality in American Higher Education brings faculty voices to the fore of the conversation and offers an insightful look at the state of higher education, and a realistic strategy for better serving our students.

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Borgerding, 2018-06-21 This edited book provides a global view on evolution education. It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe, Western Europe, North Africa, South Africa, North America, South America, Middle East, Far East, South East Asia, Australia, and New Zealand. Studies in evolution education literature can be divided into three main categories: (a) understanding the interrelationships among cognitive, affective, epistemological, and religious

factors that are related to peoples' views about evolution, (b) designing, implementing, evaluating evolution education curriculum that reflects contemporary evolution understanding, and (c) reducing antievolutionary attitudes. This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region. The individual chapters thus include common elements that facilitate a cross-cultural meta-analysis. Written for a primarily academic audience, this book provides a much-needed common background for future evolution education research across the globe.

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college biology pdf: *Preparing for College and University Teaching* Joanna Gilmore, Molly Hatcher, 2023-07-03 This book is a guide for designing professional development programs for graduate students. The teaching competencies framework presented here can serve as the intended curriculum for such programs. The book will also be an excellent resource for evaluating programs, and will be an excellent resource for academics who study graduate students. This book presents the work of the Graduate Teaching Competencies Consortium to identify, organize, and clarify the competencies that graduate students need to teach effectively when they join the professoriate. To achieve this goal, the Consortium developed a framework of 10 teaching competencies organized around three overarching questions: • What do graduate students need to achieve by the end of their graduate education to be successful teacher-scholars? • What do graduate students need to understand about higher education to have successful careers as educators? • What do graduate students need to do to be successful teachers during their graduate student careers? Although much work has been done to identify the competencies of effective teachers in higher education, only a

small portion of this work has been conducted with graduate student instructors. This is an important area of research given that graduate students are critical in the higher education academic pipeline. Nationally, graduate students teach between 25% and 50% of courses offered at the undergraduate level. Graduate student teaching is also critical because during early teaching experiences teachers establish a teaching style and set of teaching skills, which will endure as graduate students enter the professoriate. It is important to develop a teaching competency framework that is specific to graduate student instructors as they often have unique needs and roles as teachers. For example, graduate student instructors are in the unique position of becoming experts in their field concurrent with learning to teach. Moreover, as many professional development programs for graduate student instructors evolve based upon factors such as available resources and perceived needs of graduate students, this framework will be a useful aid for thoughtfully designing strategic, evidence-based, comprehensive professional development opportunities and programs.

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