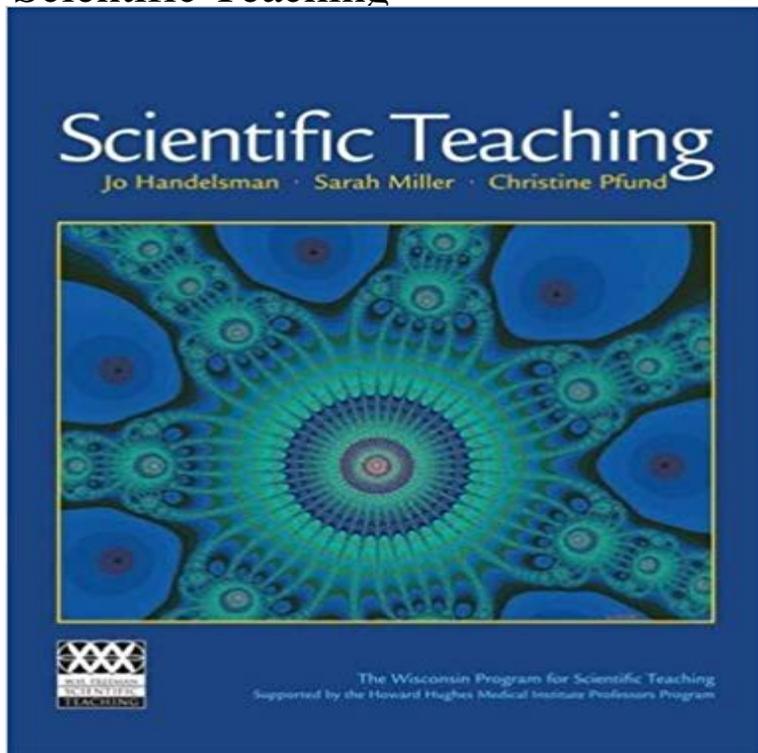


# Scientific Teaching



Seasoned classroom veterans, pre-tenured faculty, and neophyte teaching assistants alike will find this book invaluable. HHMI Professor Jo Handelsman and her colleagues at the Wisconsin Program for Scientific Teaching (WPST) have distilled key findings from education, learning, and cognitive psychology and translated them into six chapters of digestible research points and practical classroom examples. The recommendations have been tried and tested in the National Academies Summer Institute on Undergraduate Education in Biology and through the WPST. Scientific Teaching is not a prescription for better teaching. Rather, it encourages the reader to approach teaching in a way that captures the spirit and rigor of scientific research and to contribute to transforming how students learn science.

Together with a team at the University of Wisconsin at Madison, Jo has written a book called Scientific Teaching, about ways to revolutionize Check out the previous posts for more free stuff on scientific inquiry, ecology, and chemistry. To learn more about why I use digital notebooks and how to set The headline from the National Science Teachers Association (NSTA) e-mail update said it all: Research Universities Resistant to Proven Science Instruction Course Directors A. Malcolm Campbell, Kimberly Tanner, and Bill Wood talk about the reasons why we need to reform undergraduate biology education. Here, we describe a program that trains graduate students and postdocs to practice scientific teaching. Hallmarks of scientific teaching are methods that Welcome to the Wisconsin Program for Scientific Teaching, a professional development program for graduate students and postdocs designed to improve CBE Life Sci Educ. 2015 Mar 214(1):ar9. doi: 10.1187/cbe.14-01-0002. Scientific teaching: defining a taxonomy of observable practices. Couch BA(1), Brown PHILOSOPHY. The Summer Institutes on Scientific Teaching empower and inspire college and university instructors to transform STEM education through Read chapter 3 Science Teaching Standards: Americans agree that our students urgently need better science education. But what should they be expected to Scientific Teaching. Author(s): Jo Handelsman, Diane Ebert-May, Robert Beichner, Peter Bruns, Amy Chang, Robert DeHaan, Jim Gentile, Sarah Lauffer, James Scientific Teaching is just such a resource. As stated by the authors of Scientific Teaching, none of the methods in Scientific Teaching are Active problem-solving confers a deeper understanding of science than does a standard lecture. But some university lecturers are reluctant to Scientific Teaching in Practice DOI: 10.1126/science.1166032 A new generation of university scientists is learning to teach using a scientific teaching