

Discipline-Based Education Research

A Guide for Scientists

SECOND EDITION



**Stephanie J. Slater • Timothy F. Slater
Inge Heyer • Janelle M. Bailey**

Discipline Based Education Research A Guide For Scientists

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Discipline Based Education Research A Guide For Scientists:

Discipline-Based Education Research Stephanie Slater, Timothy Slater, Inge Heyer, Janelle Bailey, 2015-07-16 This expanded and updated second edition book is written for scientists who want to learn more about how science education research is done and how to get started in discipline based education research It provides the reader with an introduction to the philosophical and practical differences between more familiar traditional scientific research and the more unfamiliar domain of sociological research Readers will learn about the most robust ideas in education research which serve as jumping off points in their new forays into the realm of discipline based education research Quantitative interpretive and action research methods are introduced with real life easy to follow examples The authors long time contributors to the science education community provide rubber meets the road guidance to both first time and experienced researchers to get projects off the ground with the goals of improving classroom practice and contributing to the knowledge base on the teaching and learning of science Discipline based education research is much like traditional scientific research in that using different instruments sometimes results in unexpected answers As an example the cover image uniquely reveals vastly different information about flowers when viewed in visible light upper left and in ultraviolet light lower right In much the same way carefully planned and well executed discipline based education research using a variety of research lenses has the ability to yield unexpected insight into teaching and learning that can benefit all of us

Discipline-based Education Research

Stephanie J. Slater, 2010 *Discipline-Based Education Research* Stephanie Slater, J.M. Bailey, 2011-01-05 A comprehensive introduction that covers both the theory and practice of science education research This text provides guidance on establishing projects and helps both first time and experienced researchers improve classroom practice It also examines the differences between traditional scientific research and sociological research

Discipline-Based Education Research National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on the Status, Contributions, and Future Directions of Discipline-Based Education Research, 2012-09-27 The National Science Foundation funded a synthesis study on the status contributions and future direction of discipline based education research DBER in physics biological sciences geosciences and chemistry DBER combines knowledge of teaching and learning with deep knowledge of discipline specific science content It describes the discipline specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding Discipline Based Education Research is based on a 30 month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science technology engineering and mathematics STEM education This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning The book provides empirical research on undergraduate teaching and learning in the sciences explores the extent to which this research currently influences undergraduate instruction and identifies the intellectual and material resources required to further develop DBER

Discipline Based Education Research provides guidance for future DBER research In addition the findings and recommendations of this report may invite if not assist post secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines as well as guide instruction and assessment across natural science courses to improve student learning The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction Discipline Based Education Research will be of interest to educators policy makers researchers scholars decision makers in universities government agencies curriculum developers research sponsors and education advocacy groups

Discipline-Based Education Research National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on the Status, Contributions, and Future Directions of Discipline-Based Education Research, 2012-08-27 The National Science Foundation funded a synthesis study on the status contributions and future direction of discipline based education research DBER in physics biological sciences geosciences and chemistry DBER combines knowledge of teaching and learning with deep knowledge of discipline specific science content It describes the discipline specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding Discipline Based Education Research is based on a 30 month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science technology engineering and mathematics STEM education This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning The book provides empirical research on undergraduate teaching and learning in the sciences explores the extent to which this research currently influences undergraduate instruction and identifies the intellectual and material resources required to further develop DBER

Discipline Based Education Research provides guidance for future DBER research In addition the findings and recommendations of this report may invite if not assist post secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines as well as guide instruction and assessment across natural science courses to improve student learning The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction Discipline Based Education Research will be of interest to educators policy makers researchers scholars decision makers in universities government agencies curriculum developers research sponsors and education advocacy groups

Principles of Life David M. Hillis, Mary V. Price, Richard W. Hill, David W. Hall, Marta J. Laskowski, 2019-01-23 For instructors concerned that the practical skills of biology are lost when the student moves on to the next course or takes their first step into the real world Principles of Life 3e lays the foundation for later courses and for students careers Expanding on its pioneering concept driven approach experimental data driven exercises and active learning focus PoL 3e introduces features designed to involve students in mastering concepts and becoming skillful at solving biological problems Research shows that when students engage with a course it leads to better

outcomes Principles of Life 3e is a holistic solution that has been designed from the ground up to actively engage students in mastering concepts and becoming skilled at solving biological problems Within LaunchPad our digital teaching and learning solution we provide thoughtfully curated assignments and activities to support pre lecture preparation classroom activities and post lecture assessment With its focus on key competencies foundational to biology education and careers self guided adaptive learning and unparalleled instructor resources for active classrooms Principles of Life is the resource students need to succeed

Life: The Science of Biology David M. Hillis,H. Craig Heller,Sally D. Hacker,David W. Hall,Marta J. Laskowski,David E. Sadava,2020-07-16 The new 12th edition of Life The Science of Biology continues to be engaging active and focused on teaching the skills that students need to master the majors biology course New pedagogical features work in conjunction with powerful updates to the online suite of materials in Achieve to support the mission of Life by teaching students the skills and understanding of experimentation and data they need to succeed in introductory biology and ultimately in their future STEM careers Life s potent combination of expertly crafted media assessment pedagogy and engagement makes this new edition the best resource yet for biology students

Threshold Concepts Within the Disciplines Ray Land,Jan Meyer,Jan Smith,2008 Threshold Concepts within the Disciplines brings together leading writers from various disciplines and national contexts in an important and readable volume for all those concerned with teaching and learning in higher education The foundational principle of threshold concepts is that there are in each discipline conceptual gateways or portals that must be negotiated to arrive at important new understandings In crossing the portal transformation occurs both in knowledge and subjectivity Such transformation involves troublesome knowledge a key concern for contributors to this book who identify threshold concepts in their own fields and suggest how to deal with them Part One extends and enhances the threshold concept framework containing chapters that articulate its qualities its links to other social theories of learning and other traditions in educational research Part Two encompasses the disciplinary heart of the book with contributions from a diversity of areas including computing engineering biology design modern languages education and economics In the many empirical case studies educators show how they have used the threshold concept framework to inform and evaluate their teaching contexts Other chapters emphasise the equally important being and becoming dimension of learning Part Three suggests pedagogic directions for those at the centre of the education project with contributions focusing on the socialisation of academics and their continuing quest to be effective teachers The book will be of interest to disciplinary teachers educational researchers and educational developers It also is of relevance to issues in quality assurance and professional accreditation

Nuts and Bolts of Chemical Education Research Diane M. Bunce,Renée S. Cole,2008 The purpose of this book is to address the key elements of planning chemical education research projects and educational outreach evaluation components of science grants from a pragmatic point of view

A Guide for Developing Interdisciplinary Thematic Units Patricia Roberts,Richard Dean Kellough,2008 Looks at the development of

interdisciplinary thematic units covering such topics as content diversity technology and classroom management

Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences, 1990 *Science* John Michels (Journalist), 1900 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting **Discipline-based Art Education** Ralph Alexander Smith, 1989 *American Journal of Physics*, 2001

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Peterson's Guide to Graduate Programs in the Humanities, Arts, and Social Science, 1991 *Peterson's Guide to Graduate Programs in Engineering and Applied Sciences*, 1986 *The Balance Sheet*, 1926 *The Science Education Initiative Handbook* Stephanie V. Chasteen, Warren J. Code, 2018 This Handbook is based on the Science Education Initiative SEI a transformative initiative aimed at changing STEM teaching practices in university settings The SEI was successfully implemented in two institutions University of Colorado Boulder and The University of British Columbia over a period of 10 years This Handbook shares the SEI's accumulated wisdom of practice in how to implement a department based initiative focusing on faculty learning and course transformation facilitated by Discipline Based Educational Specialists DBESs DBESs may be postdoctoral fellows instructors or other faculty The Handbook is aimed at institutional leaders faculty and education specialists wishing to create or implement a department level change initiative for broadening faculty use of effective teaching practices **The Scholarship of Academic Development** Heather Eggins, Randal Macdonald, 2003 In recent times academic development has moved from the margins to the mainstream of higher education institutions This work addresses the concept and nature of academic development and examines research into and within the field It shows how academic development might be distinguished from and overlap with educational development and staff development and how it encompasses those activities concerned with developing learning and teaching in higher education at individual departmental faculty institutional and even at national international levels

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