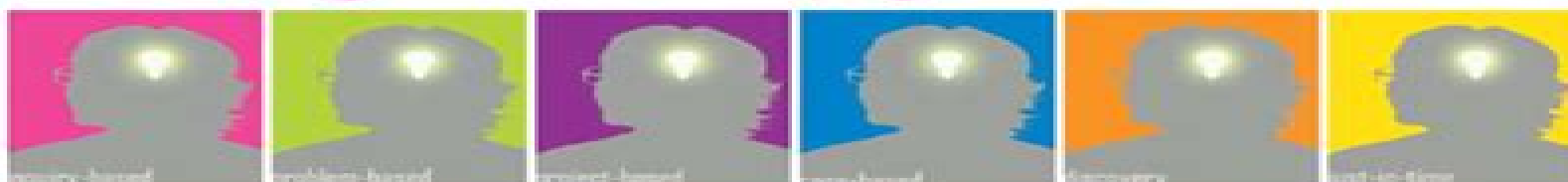


The Many Faces of Inductive Teaching and Learning

By Michael Prince
and Richard Felder



This study examines the effectiveness and implementation of different inductive teaching methods, including inquiry-based learning, problem-based learning, project-based learning, case-based teaching, discovery learning, and just-in-time teaching.

Science courses are traditionally taught deductively. The instructor first teaches students relevant theory and mathematical models, then moves on to textbook exercises, and eventually—maybe—gets to real-world applications. Often the only motivation students have to learn the material, beyond grades, is the vague promise that it will be important later in the curriculum or in their careers. Failure to connect course content to the real world has repeatedly been shown to contribute to students leaving the sciences (Seymour and Hewitt 1997; Kardash and Wallace 2001).

A better way to motivate students is *inductive teaching*, in which the instructor begins by presenting students with a specific challenge, such as experimental data to interpret, a case study to analyze, or a complex real-world problem to solve. Students grappling with these challenges quickly recognize the need for facts, skills, and conceptual understanding, at which point the teacher provides instruction or helps students learn on their own. Bransford, Brown, and Cocking (2000) survey extensive neurological and psy-

chological research that provides strong support for inductive teaching methods. The literature also demonstrates that inductive methods encourage students to adopt a deep approach to learning (Ramsden 2003; Norman and Schmidt 1992; Coles 1985) and that the challenges provided by inductive methods serve as precursors to intellectual development (Felder and Brent 2004).

Inductive teaching methods come in many forms, including discovery learning, inquiry-based learning, problem-based learning, project-based learning, case-based teaching, and just-in-time teaching. Few studies have examined these methods as a group. Prince and Felder (2006) provide an extensive analysis of the conceptual frameworks and research bases for inductive teaching, review applications of inductive methods in engineering education, and state the roles of other student-centered approaches, such as active and cooperative learning, in inductive teaching. This paper briefly reviews the distinguishing features of the principal inductive methods, describes illustrative applications in the sciences, discusses practical issues of implementation, and suggests resources for instructors who wish to use one or more inductive methods in their own teaching.

Inductive teaching methods

What inductive methods have in common is that students are presented

with a challenge and then learn what they need to know to address the challenge. The methods differ in the nature and scope of the challenge and in the amount of guidance students receive from their instructor as they attempt to meet the challenge.

Inquiry-based learning

In *inquiry-based learning* (also known as *inquiry-guided learning* or *guided inquiry*), students are presented with a challenge (such as a question to be answered, an observation or data set to be interpreted, or a hypothesis to be tested) and accomplish the desired learning in the process of responding to that challenge. As with all inductive methods, the information needed to address the challenge would not have been previously covered explicitly in lectures or readings, although it would normally build on previously known material. Inquiry has frequently been found to be more effective than traditional science instruction at improving academic achievement and the development of thinking, problem-solving, and laboratory skills (Smith 1996; Haury 1993; McReary, Golde, and Koeske 2006; Shymansky, Hedges, and Woodworth 1990; Rubin 1996; Oliver-Hoyo and Allen 2005; Oliver-Hoyo et al. 2004). Colburn (2006) recommends focusing inquiry-based activities around questions that call for experimental investigation, involve materials and situations

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Many Faces Of Teaching

Alfred M. Wu, John N. Hawkins



Many Faces Of Teaching:

Many Faces, One Purpose; A Manager's Handbook on Women in Firefighting, 1999 **The Many Faces of Special Educators** Beverley H. Johns, Mary Z. McGrath, Sarup R. Mathur, 2010-01-16 Those who enter the special education profession should be recognized as positive contributors to society This book celebrates the many talents of special educators and how those talents are utilized throughout all facets of life It provides an excellent view of the positive dispositions of special educators and can also be utilized by employers seeking to employ special educators who possess these dispositions

The Many Faces of Faith Richard R. Losch, 2002 Designed to introduce general readers to the great diversity of religion that exists today this fascinating and very useful book provides short descriptions of the beliefs and practices of the world religions and the denominational branches of Christianity Now in paperback **The Many Faces of School Library**

Leadership Sharon Coatney, Violet H. Harada, 2017-03-29 Completely revised with even more contributions added by practicing school librarians this book further examines the responsibility to lead in many areas and identifies the real world day to day application of established theory and best practices In today's educational landscape school librarians need to lead the way in many areas including advocacy literacy technology curriculum vision collaborative instruction and intellectual freedom All of these areas are vital to building and sustaining a school library program that enhances and encourages student achievement as well as to providing enhanced services to students and faculty This revised edition of *The Many Faces of School Library Leadership* offers invaluable insights from recognized leaders in the field of school librarianship that detail leadership roles embraced by accomplished practitioners and consider the research regarding best practices An essential read for practicing school librarians as well as for pre service school librarians it offers today's school librarians actionable advice for strengthening their roles underlining their value and protecting their future all while boosting student learning and achievement The expert guidance and perspectives in this book will bolster those who are facing enormous challenges to meet them and allow school library staff to protect their jobs and to save school library programs from extinction *The Many Faces of Tolerance* Ewa A. Golebiowska, 2014-05-23 This book presents a systematic account on

Poles attitudes toward ethnic religious political and sexual minorities It investigates Poland's reputation as an intolerant anti Semitic and homophobic country Counter to a simplistic image of Poland as a hotbed of intolerance the book shows that Polish intolerance has many faces For one thing Poles attitudes toward diversity vary from one group to another For another the extent to which Poles attitudes are more or less negative depends on the right or activity they are asked to support and who the respondents happen to be The book is the most comprehensive and empirically sophisticated synthesis of Poles attitudes toward diversity to date Previous research tends to describe Poles attitudes toward a single minority at a time and only examines subgroup differences in their thinking about diversity *The Many Faces of Tolerance* is a multi faceted analysis of Poles sentiments toward historically and currently discriminated against groups that assesses Poles acceptance of

different minorities and authoritatively analyzes its sources As part of this endeavor the book develops a ranking of influences on Poles tolerance undertakes a forecasting of future changes in tolerance in Poland and proposes practical strategies to ameliorate existing intolerance

The Many Faces of Philosophy Amélie Oksenberg Rorty,2003-02-06

Philosophy is a dangerous profession risking censorship prison even death And no wonder philosophers have questioned traditional pieties and threatened the established political order Some claimed to know what was thought unknowable others doubted what was believed to be certain Some attacked religion in the name of science others attacked science in the name of mystical poetry some served tyrants others were radical revolutionaries This historically based collection of philosophers reflections the letters journals prefaces that reveal their hopes and hesitations their triumphs and struggles their deepest doubts and convictions allow us to witness philosophical thought in process It sheds light on the many and conflicting aims of philosophy to express skepticism or overcome it to support theology or attack it to develop an ethical system or reduce it to practical politics As their audiences differed philosophers experimented with distinctive rhetorical strategies writing dialogues meditations treatises aphorisms Ranging from Plato to Hannah Arendt with contributions from 44 philosophers Augustine Maimonides AlGhazali Descartes Pascal Leibniz Voltaire Rousseau Hobbes Hume Kant Nietzsche Kierkegaard Wittgenstein among others this remarkable collection documents philosophers claim that they change as well as understand the world In her introductory essay Witnessing Philosophers Amelie Rorty locates philosophers reflections in the larger context of the many facets of their other activities and commitments

The Many Faces of Teaching Thomas H. Buxton,1987 Any student reading this book will certainly have a true picture of what it takes to be a teacher The thematic form and organization of the book is most clever Using outstanding teachers to give realism to the descriptions is quite innovative I d like all of our undergrads to read this book Excellent summary at end

The Many Faces of Job Choon-Leong Seow,2023-05-08 This handbook analyses in a comparative method and on an interdisciplinary level how the biblical figure of Job and his texts were interpreted from premodern times until today highlighting continuities and discontinuities The first volume addresses the premodern period and includes chapters on Second Temple Judaism Jewish Interpretations Christian Interpretations Islam Literature Visual Arts and Music

The Many Faces of Subud Riantee Lydia Rand,2005-04-18 Subud is a direct and spontaneous spiritual experience that allows people to receive a contact with the Great Life Force It re awakens their inner feeling and puts them in touch with their own guidance eventually bringing to the surface their true nature which was before obstructed and cluttered with erroneous beliefs ancestral patterns of behavior culture education and their family malfunctions Many have found a deeper understanding of their own religious beliefs from the evidence they receive for themselves Others have come to actualize their true talent and work There are Subud groups in eighty countries bringing together harmoniously people of many different religious and ethnic backgrounds The spiritual practice or latihan arises from within It is a natural process that occurs without effort or study This book is the result of the

collaborative effort of three women who have practiced the latihan of Subud for decades It compiles testimonies of Subud members from all over the world on different topics Each chapter begins with a short account of observations experiences receivings and dreams on the subject People interviewed were of different age groups social and ethnic backgrounds some newly opened in Subud some older members some second and third generation Subud The opening latihan when one first receives this contact is a ceremony of introduction into the spiritual exercise after a three month period of inquiry referred to as the probation or investigation period Through the latihan people renew their contact with the power of God and become aware of the latent powers that reside in all of humankind The central feature of Subud is the latihankejiwaan or inner training which takes place for half an hour up to an hour two or three times a week and is practiced by men and women separately Subud has little doctrinal teaching except for the belief in divine power and higher centers of consciousness The implication is that people practicing the latihan align themselves with those higher centers It is available to any person seventeen and older who has a sincere wish to worship God and wants to receive this contact The action of the latihan within each person allows the power of God to express itself spontaneously through singing chanting shouting moving dancing crying laughing etc Subud s founder Bapak Muhammad Subuh explains that in this way when in the latihan we make a complete surrender to the Power of God or the Great Life Force we can receive the education of our inner selves free from interference by our minds and hearts and according to our own individual needs Participants have often reported strong feelings of rapture and release psychological and physical healing During latihan one lets go of thoughts and emotions in order to follow what surfaces those movements and sounds that spontaneously arise from deep within It is a form of cleansing which allows the worship of God to become stronger and less obstructed a training that lets individuals get in touch develop and trust their inner guidance enabling the complete self to emerge through an action that comes from beyond the thinking and the will

The Many Faces of Clio Q. Edward Wang, Franz L. Fillafer, Georg G. Iggers, 2007 Born in Germany Georg Iggers escaped from Nazism to the United States in his adolescence where he became one of the most distinguished scholars of European intellectual history and the history of historiography In his lectures delivered all over the world and in his numerous books translated into many languages Georg Iggers has reshaped historiography and indefatigably promoted cross cultural dialogue This volume reflects the profound impact of his oeuvre Among the contributors are leading intellectual historians but also younger scholars who explore the various cultural contexts of modern historiography focusing on changes of European and American scholarship as well as non Western historical writing in relation to developments in the West Addressing these changes from a transnational perspective this well rounded volume offers an excellent introduction to the field which will be of interest to both established historians and graduate students

The Many Faces of Homosexuality Evelyn Blackwood, 2013-04-03 This groundbreaking book examines the diverse manifestations of homosexuality in various historical periods and non Western cultures The distinguished authors examine

Kimam male ritualized homosexual behavior Mexican homosexual interaction in public contexts male homosexuality and spirit possession in Brazil and much more *The Many Faces of Taiwan's Cultural Diplomacy* LIT Verlag, 2022-08-23 This is a pioneering book on Taiwan's cultural diplomacy It argues that cultural diplomacy is a subset of public diplomacy aiming to utilize useful cultural resources to demonstrate Taiwan's soft power so to increase the public's understanding and create positive impression toward Taiwan in the like minded countries It then identifies three effective areas to implement cultural diplomacy films music and the academic field of Taiwan studies Dr Astrid Lipinsky is Managing Director of the Vienna Center for Taiwan Studies at University of Vienna Austria Professor Hsin Huang Michael Hsiao is Chairman of Taiwan Asia Exchange Foundation Taiwan **ENC Focus Review , After the Wrath of God** Anthony M. Petro, 2015-06-01 On a cold February morning in 1987 amidst freezing rain and driving winds a group of protesters stood outside of the Unitarian Universalist Church in Amherst Massachusetts The target of their protest was the minister inside who was handing out condoms to his congregation while delivering a sermon about AIDS dramatizing the need for the church to confront the seemingly ever expanding crisis The minister's words and actions were met with a standing ovation from the overflowing audience but he could not linger to enjoy their applause Having received threats in advance of the service he dashed out of the sanctuary immediately upon finishing his sermon Such was the climate for religious AIDS activism in the 1980s In *After the Wrath of God* Anthony Petro vividly narrates the religious history of AIDS in America Delving into the culture wars over sex morality and the future of the American nation he demonstrates how religious leaders and AIDS activists have shaped debates over sexual morality and public health from the 1980s to the present day While most attention to religion and AIDS foregrounds the role of the Religious Right Petro takes a much broader view encompassing the range of mainline Protestant evangelical and Catholic groups alongside AIDS activist organizations that shaped public discussions of AIDS prevention and care in the U S Petro analyzes how the AIDS crisis prompted American Christians across denominations and political persuasions to speak publicly about sexuality especially homosexuality and to foster a moral discourse on sex that spoke not only to personal concerns but to anxieties about the health of the nation He reveals how the epidemic increased efforts to advance a moral agenda regarding the health benefits of abstinence and monogamy a legacy glimpsed as much in the traction gained by abstinence education campaigns as in the more recent cultural purchase of gay marriage The first book to detail the history of religion and the AIDS epidemic in the U S *After the Wrath of God* is essential reading for anyone concerned with the intersection of religion and public health Applying Standards-based Constructivism Pat Flynn, 2004 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company Resources in Education , 2000-10 Massification of Higher Education in Asia Alfred M. Wu, John N. Hawkins, 2018-07-17 This book addresses important questions and puzzles regarding the massification of higher education in Asia It equips readers to critically evaluate and understand the consequences and challenges that massification entails while also prompting policymakers and higher

education administrators to tackle emerging issues related to the massification of higher education Readers will gain a deeper nuanced understanding of this trend including its impacts and governance issues *The Many Faces of Imitation in Language Learning* Gisela E. Speidel, Keith E. Nelson, 2012-12-06 In this book we take a fresh look at imitation With the knowledge of some 20 years of research after Chomsky's initial critique of the behavioristic approach to language learning it is time to explore imitation once again How imitation is viewed in this book has changed greatly since the 1950s and can only be understood by reading the various contributions This reading reveals many faces many forms many causes and many functions of imitation cognitive social information processing learning and biological Some views are far removed from the notion that an imitation must occur immediately or that it must be a perfect copy of an adult sentence But the essence of the concept of imitation is retained Some of the child's language behavior originates as an imitation of a prior model The range of phenomena covered is broad and stimulating Imitation's role is discussed from infancy on through all stages of language learning Individual differences among children are examined in how much they use imitation and in what forms and to what purposes they use it The forms and functions of parent imitation of their child are considered Second language learning is studied alongside first language learning The juxtaposition of so many views and facets of imitation in this book will help us to study the commonalities as well as differences of various forms and functions of imitative language and will help us to discern the further dimensions along which we must begin to differentiate imitation *A Collection of AI Innovations by Chinese Teenagers* Ronghuai Huang, Dejian Liu, Jinbao Zhang, Yanyan Li, 2024-08-09 This book presents 10 artificial intelligence AI innovation projects by Chinese teenagers including innovations on intelligent medical care environmental protection education transportation among others It delves into the technical details of these innovations providing readers with a comprehensive understanding of the concepts and technologies involved in each case The book also discusses the challenges faced by young innovators and their approaches to overcome them and serves as a valuable resource for readers interested in the practical applications of AI Research in Education ,1974

The Enigmatic Realm of **Many Faces Of Teaching**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Many Faces Of Teaching** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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