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A Framework for K-12 Science Education - National Research Council 2012-02-28

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

The Next Step Forward in Reading Intervention - Jan Richardson 2020-02-26

Literacy intervention should be swift and powerful--and this approach by Jan Richardson and Ellen Lewis

provides fast results! After only 6-8 weeks of intervention, students can gain the confidence, proficiency, and skills they need to excel as readers and exit intervention! Based on Jan's bestselling *The Next Step Forward in Guided Reading*, this companion volume is intended to be used together in order to best implement the RISE framework.. *The Next Step Forward in Reading Intervention* offers intensive, short-term, targeted instruction in reading, writing, word study, and comprehension. It's a step-by-step handbook for literacy teachers, literacy coaches, and reading specialists who are looking for a proven reading invention program that really works. "RISE has truly changed the face of intervention at our school." -- Ranita Glenn, Reading Specialist and RISE instructor, Hardy Elementary School, Chattanooga, Tennessee

Assessment Strategies for Math - Walch Publishing 2003-03

Builds solid skills in algebra, geometry, number sense, probability and statistics, and more Introduces a variety of test-taking tips and strategies. Helps students beat the test jitters and attack problems confidently. Offers questions that mirror actual tests.

Numeracy Across the Curriculum - Merrilyn Goos 2020-07-16

Being numerate involves more than mastering basic mathematics. Numeracy connects the mathematics learned at school with out-of-school situations that require capabilities such as problem solving, critical judgment, and sense-making related to non-mathematical contexts. This book provides prospective and practising teachers with practical, research-based strategies for embedding numeracy across the primary and secondary school curriculum. Based on the authors' ten-year research program, the text explains what numeracy is and how numeracy has developed as an educational goal. It describes in detail the five dimensions of the authors' model: attention to real-life contexts; application of mathematical knowledge; use of physical, representational and digital tools; the promotion of positive dispositions towards the use of mathematics to solve problems encountered in day-to-day life; and a critical orientation to interpreting mathematical results and making evidence-based judgements. There is guidance on how to embed numeracy

across all subjects within the curriculum, how to assess numeracy learning and how to deal with challenges and dilemmas including working with discipline boundaries and developing support resources. Featuring practical examples and case studies throughout, this book will build pre-service teacher confidence, demystify common misconceptions and grounds theory into practice in this vital area of student competency. 'The authors of this text are recognised authorities on numeracy. They have engaged heavily in numeracy research over many years and this text reflects the depth of their understanding and knowledge.' - Geoff Hilton, University of Queensland

Learning and Understanding - National Research Council 2002-08-06

This book takes a fresh look at programs for advanced studies for high school students in the United States, with a particular focus on the Advanced Placement and the International Baccalaureate programs, and asks how advanced studies can be significantly improved in general. It also examines two of the core issues surrounding these programs: they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education. By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs, this report provides teachers, parents, curriculum developers, administrators, college science and mathematics faculty, and the educational research community with a detailed assessment that can be used to guide change within advanced study programs.

Principles and Standards for School Mathematics - 2000

This easy-to-read summary is an excellent tool for introducing others to the messages contained in Principles and Standards.

Principles to Actions - National Council of Teachers of Mathematics 2014-02

This text offers guidance to teachers, mathematics coaches, administrators, parents, and policymakers. This book: provides a research-based description of eight essential mathematics teaching practices ; describes the conditions, structures, and policies that must support the teaching practices ; builds on NCTM's Principles and Standards for School Mathematics and supports implementation of the Common Core State Standards for Mathematics to attain much higher levels of mathematics achievement for all students ; identifies obstacles, unproductive and productive beliefs, and key actions that must be understood, acknowledged, and addressed by all stakeholders ; encourages teachers of mathematics to engage students in mathematical thinking, reasoning, and sense making to significantly strengthen teaching and learning.

Distance Education for Teacher Training - Hilary Perraton 2002-03-11

First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

Brain Quest Grade 1 Math - Marjorie Martinelli 2006-05-10

How many months are in one year? Does a perimeter go around a school yard or right through it? Which has more wheels: a bicycle or a tricycle? Plus operations, minute hands, money, number patterns, measurements, fractions, and Sally is fourth in line. How many people are in front of her? Math skills are crucial—and there's no reason for students to struggle. Brain Quest Math Grade 1 teaches kids the fundamentals of math and the pleasure of being a problem solver with 750 curriculum-based questions and answers reflecting the latest school standards. Because learning plus practice, time, skill and drills add up to knowledge. Vetted by a panel of America's highest award-winning teachers, and embraced by kids and parents because it flat-out works, Brain Quest opens a world of information and education with its fast-paced question-and-answer format, bright full-color illustrations, and lively attitude.

Design Approaches and Tools in Education and Training - Jan van den Akker 2012-12-06

In our contemporary learning society, expectations about the contribution of education and training continue to rise. Moreover, the potential of information and communication technology (ICT) creates many challenges. These trends affect not only the aims, content and processes of learning, they also have a strong impact on educational design and development approaches in research and professional practices. Prominent researchers from the Netherlands and the USA present their latest findings on these issues in this volume. The major purpose of this book is to discuss current thinking on promising design approaches and to present innovative (computer-based) tools. The book aims to serve as a resource and reference work that will stimulate advancement in the field of education and training. It is intended to be useful in academic settings as well as for professionals in design and development practices.

Daily Math Practice, Grade 3 - Evan-Moor Corporation 1999-10

Using standardized testing formats, math skills are kept sharp with focused practice in computation, word problems, graphing, measurement and numbers. Includes scope and sequence charts and answer keys.

National Standards for History - National Center for History in the Schools (U.S.) 1996

This sourcebook contains more than twelve hundred easy-to-follow and implement classroom activities created and tested by veteran teachers from all over the country. The activities are arranged by grade level and are keyed to the revised National History Standards, so they can easily be matched to comparable state history standards. This volume offers teachers a treasury of ideas for bringing history alive in grades 5?12, carrying students far beyond their textbooks on active-learning voyages into the past while still meeting required learning content. It also incorporates the History Thinking Skills from the revised National History Standards as well as annotated lists of general and era-specific resources that will help teachers enrich their

classes with CD-ROMs, audio-visual material, primary sources, art and music, and various print materials.

Grades 5?12

Assessment, Recording and Reporting - Inspectorate of Schools (England and Wales) 1992

Math Makes Sense - 2008

Mathematics 7 - 1987

World History and Geography - California. Dept. of Education 1994-01-01

This document is a response to teachers' requests for practical assistance in implementing California's history-social science framework. The document offers stimulating ideas to enrich the teaching of history and social science, enliven instruction for every student, focus on essential topics, and help make learning more memorable. Experiences and contributions of ethnic groups and women in history are integrated in this course model. The framework is divided into 11 units: (1) Connecting with Past Learnings: Uncovering the Remote Past; (2) Connecting with Past Learnings: the Fall of Rome; (3) Growth of Islam; (4) African States in the Middle Ages and Early Modern Times; (5) Civilizations of the Americas; (6) China; (7) Japan; (8) Medieval Societies: Europe and Japan; (9) Europe During the Renaissance, the Reformation, and the Scientific Revolution; (10) Early Modern Europe: The Age of Exploration to the Enlightenment; and (11) Linking Past to Present. Six of the 11 units delineated in the framework's 7th grade course description are developed in these course models. All units follow the same format. Each begins with a rationale and overview. Ways are suggested for teachers to coordinate the model with the state-adopted textbook for 7th grade. A presentation of activities to introduce and continue the sample topic are suggested to encourage students to apply what they have studied through projects. Each unit ends with an extensive annotated list of sample resources. (DK)

How to Host a Viking Funeral - Kyle Scheele 2022-02-08

An inspiring speaker and artist asked 20,000 people around the world to share the regrets they wanted him to burn in a mock Viking ship. This is the story of what he learned about letting go of the pain of the past and embracing the future with hope. Turning 30, artist and speaker Kyle Scheele wanted to do something unusual to mark this milestone. Instead of a birthday bash, he decided to hold a funeral to memorialize the decade of his life that was ending. Building a 16-foot Viking ship out of cardboard, he invited friends to help him set it on fire—a symbolic farewell to his 20s and all the grief, regret, and mistakes that accompanied those years.

When video of his Viking funeral went viral, it encouraged many others to let go of past hurts as well. Moved

by the response he received, Kyle planned a second funeral (this time with a 30-foot cardboard Viking ship) and asked people to share the things they carried—the bad choices, disappointments, heartaches, and negative thinking that they wanted to lay to rest. He received more than 20,000 responses from around the world—stories both heartbreaking and hilarious, painful and inspiring. In this entertaining and wise book, Kyle reflects on what he discovered about freeing ourselves from the pain of the past, interweaving anecdotes from those who participated with the story of his own journey of renewal. “This story involves multiple Viking funerals, thousands of square feet of cardboard, and enough hot glue to supply your mother-in-law's craft night for the rest of time,” he writes. “But it also involves regret, self-doubt, insecurity, and ultimately, redemption. So buckle up. It's about to get bumpy.” *How to Host a Viking Funeral* is the story of letting go of the people we used to be, but no longer want to be. It's about renewal; where there was once regret there is now blank space—an opportunity for a fresh start.

Cincinnati Magazine - 2003-04

Cincinnati Magazine taps into the DNA of the city, exploring shopping, dining, living, and culture and giving readers a ringside seat on the issues shaping the region.

Growing with Science and Health 3 Teacher's Manual 1st Ed. 1999 -

Assessment for Learning: Meeting the Challenge of Implementation - Dany Laveault 2016-08-15

This book provides new perspectives on Assessment for Learning (AfL), on the challenges encountered in its implementation, and on the diverse ways of meeting these challenges. It brings together contributions from authors working in a wide range of educational contexts: Australia, Canada, England, Germany, New Zealand, Norway, Israel, Philippines, Scotland, Spain, Sweden, Switzerland, the United States. It reflects the issues, innovations, and critical reflections that are emerging in an expanding international network of researchers, professional development providers, and policy makers, all of whom work closely with classroom teachers and school leaders to improve the assessment of student learning. The concept of Assessment for Learning, initially formulated in 1999 by the Assessment Reform Group in the United Kingdom, has inspired new ways of conceiving and practicing classroom assessment in education systems around the world. This book examines assessment for learning in a broad perspective which includes diverse approaches to formative assessment (some emphasizing teacher intervention, others student involvement in assessment), as well as some forms of summative assessment designed to support student learning. The focus is on assessment in K-12 classrooms and on the continuing professional learning of teachers and school leaders working with these classrooms. Readers of this volume will encounter well documented accounts of AfL implementation

across a large spectrum of conditions in different countries and thereby acquire better understanding of the challenges that emerge in the transition from theory and policy to classroom practice. They will also discover a wealth of ideas for implementing assessment for learning in an effective and sustainable manner. The chapters are grouped in three Parts: (1) Assessment Policy Enactment in Education Systems; (2) Professional Development and Collaborative Learning about Assessment; (3) Assessment Culture and the Co-Regulation of Learning. An introduction to each Part provides an overview and presents the suggestions and recommendations formulated in the chapters.

MathLinks 7 - Glen Holmes 2007

Math, Grade 2 - Teacher Created Resources, Inc 2008-12

"2 CD-ROMs: Bonus parent materials! English & Spanish"--Cover.

Kids Come in All Languages - Pritchard Spangenberg-Urbschat 1994

Intended to help students from language-minority backgrounds develop literacy in English, this book identifies and answers the major questions surrounding reading instruction for English as a second language (ESL) students. Specifically, the book reviews and synthesizes what is known about background issues related to the education of ESL students; provides specific suggestions to teachers and administrators for organizing for instruction and enhancing student learning; and gives concrete examples of practical ways in which teachers can develop and implement authentic, meaning-centered instructional activities. Chapters in the book are (1) "Demographic Overview: Changes in Student Enrollment in American Schools" (Julia Lara); (2) "Multiculturalism: An Educational Model for a Culturally and Linguistically Diverse Society" (Carlos E. Cortes); (3) "The Acquisition of English as a Second Language" (Jim Cummins); (4) "Self-Esteem: Access to Literacy in Multicultural and Multilingual Classrooms" (Bess Altwerger and Bonnie Lee Ivener); (5) "Instructional Approaches and Teaching Procedures" (Anna Uhl Chamot and J. Michael O'Malley); (6) "Selecting Materials for the Reading Instruction of ESL Children" (Virginia Garibaldi Allen); (7) "Comprehending through Reading and Writing: Six Research-Based Instructional Strategies" (Nancy Farnan and others); (8) "Language, Literacy, and Content Instruction: Strategies for Teachers" (Alfredo Schifini); and (9) "Assessing the Literacy Development of Second-Language Students: A Focus on Authentic Assessment" (Georgia Earnest Garcia). "The ESL Student: Reflections on the Present, Concerns for the Future (Eleanor Wall Thonis) concludes the book. Author and subject indexes are attached. (RS)

Learning and Teaching Early Math - Douglas H. Clements 2009-04-01

In this important new book for pre- and in-service teachers, early math experts Douglas Clements and Julie

Sarama show how "learning trajectories" help teachers become more effective professionals. By opening up new windows to seeing young children and the inherent delight and curiosity behind their mathematical reasoning, learning trajectories ultimately make teaching more joyous. They help teachers understand the varying level of knowledge and thinking of their classes and the individuals within them as key in serving the needs of all children. In straightforward, no-nonsense language, this book summarizes what is known about how children learn mathematics, and how to build on what they know to realize more effective teaching practice. It will help teachers understand the learning trajectories of early mathematics and become quintessential professionals.

Digital Games and Mathematics Learning - Tom Lowrie 2015-10-05

Digital games offer enormous potential for learning and engagement in mathematics ideas and processes. This volume offers multidisciplinary perspectives—of educators, cognitive scientists, psychologists and sociologists—on how digital games influence the social activities and mathematical ideas of learners/gamers. Contributing authors identify opportunities for broadening current understandings of how mathematical ideas are fostered (and embedded) within digital game environments. In particular, the volume advocates for new and different ways of thinking about mathematics in our digital age—proposing that these mathematical ideas and numeracy practices are distinct from new literacies or multiliteracies. The authors acknowledge that the promise of digital games has not always been realised/fulfilled. There is emerging, and considerable, evidence to suggest that traditional discipline boundaries restrict opportunities for mathematical learning. Throughout the book, what constitutes mathematics learnings and pedagogy is contested. Multidisciplinary viewpoints are used to describe and understand the potential of digital games for learning mathematics and identify current tensions within the field. Mathematics learning is defined as being about problem solving; engagement in mathematical ideas and processes; and social engagement. The artefact, which is the game, shapes the ways in which the gamers engage with the social activity of gaming. In parallel, the book (as a textual artefact) will be supported by Springer's online platform—allowing for video and digital communication (including links to relevant websites) to be used as supplementary material and establish a dynamic communication space.

Eight Ways of Knowing - David Lazear 1999-06-01

Formerly a SkyLight Publication Learn how to tap into practical strategies and techniques for developing and nurturing the full spectrum of intelligences identified by researcher Howard Gardner.

Teaching Student-Centered Mathematics - John A. Van de Walle 2017-01-20

NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies

other than Pearson, the access codes for the Enhanced Pearson eText may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. For courses in Elementary Mathematics Methods and for classroom teachers. This package includes the Enhanced Pearson eText and the print bound version. A practical, comprehensive, student-centered approach to effective mathematical instruction for grades Pre-K-2. Helping students make connections between mathematics and their worlds--and helping them feel empowered to use math in their lives--is the focus of this widely popular guide. Designed for classroom teachers, the book focuses on specific grade bands and includes information on creating an effective classroom environment, aligning teaching to various standards and practices, such as the Common Core State Standards and NCTM's teaching practices, and engaging families. The first portion of the book addresses how to build a student-centered environment in which children can become mathematically proficient, while the second portion focuses on practical ways to teach important concepts in a student-centered fashion. The new edition features a corresponding Enhanced Pearson eText version with links to embedded videos, blackline masters, downloadable teacher resource and activity pages, lesson plans, activities correlated to the CCSS, and tables of common errors and misconceptions. This book is part of the Student-Centered Mathematics Series, which is designed with three objectives: to illustrate what it means to teach student-centered, problem-based mathematics, to serve as a reference for the mathematics content and research-based instructional strategies suggested for the specific grade levels, and to present a large collection of high quality tasks and activities that can engage students in the mathematics that is important for them to learn. Improve mastery and retention with the Enhanced Pearson eText* The Enhanced Pearson eText provides a rich, interactive learning environment designed to improve student mastery of content. The Enhanced Pearson eText is: Engaging. The new interactive, multimedia learning features were developed by the authors and other subject-matter experts to deepen and enrich the learning experience. Convenient. Enjoy instant online access from your computer or download the Pearson eText App to read on or offline on your iPad and Android tablet.* Affordable. Experience the advantages of the Enhanced Pearson eText along with all the benefits of print for 40% to 50% less than a print bound book. *The Enhanced eText features are only available in the Pearson eText format. They are not available in third-party eTexts or downloads. *The Pearson eText App is available on Google Play and in the App Store. It requires Android OS 3.1-4, a 7" or 10" tablet, or iPad iOS 5.0 or later. 0134090683 / 9780134090689 Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades Pre-K-2 (Volume I), with Enhanced Pearson eText Package consists of: 0134556437 / 9780134556437 Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades Pre-K-2

(Volume I) 0134556453 / 9780134556451 Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades Pre-K-2 (Volume I), Enhanced Pearson eText -- Access Card
The Differentiated Classroom - Carol Ann Tomlinson 2014-05-25

Although much has changed in schools in recent years, the power of differentiated instruction remains the same--and the need for it has only increased. Today's classroom is more diverse, more inclusive, and more plugged into technology than ever before. And it's led by teachers under enormous pressure to help decidedly unstandardized students meet an expanding set of rigorous, standardized learning targets. In this updated second edition of her best-selling classic work, Carol Ann Tomlinson offers these teachers a powerful and practical way to meet a challenge that is both very modern and completely timeless: how to divide their time, resources, and efforts to effectively instruct so many students of various backgrounds, readiness and skill levels, and interests. With a perspective informed by advances in research and deepened by more than 15 years of implementation feedback in all types of schools, Tomlinson explains the theoretical basis of differentiated instruction, explores the variables of curriculum and learning environment, shares dozens of instructional strategies, and then goes inside elementary and secondary classrooms in nearly all subject areas to illustrate how real teachers are applying differentiation principles and strategies to respond to the needs of all learners. This book's insightful guidance on what to differentiate, how to differentiate, and why lays the groundwork for bringing differentiated instruction into your own classroom or refining the work you already do to help each of your wonderfully unique learners move toward greater knowledge, more advanced skills, and expanded understanding. Today more than ever, *The Differentiated Classroom* is a must-have staple for every teacher's shelf and every school's professional development collection.

Basic College Mathematics: A Text/Workbook - Charles P. McKeague 2010-03-26

Learning basic mathematics is easy and engaging with this combined text/workbook! BASIC COLLEGE MATHEMATICS is infused with Pat McKeague's passion for teaching mathematics. With years of classroom experience, he knows how to write in a way that you will understand and appreciate. McKeague's proven EPAS approach (Example, Practice Problem, Answer, and Solution) moves you through each new concept with ease while helping you break up problem solving into manageable steps. Real-world applications in every chapter of this user-friendly book highlight the relevance of what you are learning. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Science Teaching Reconsidered - National Research Council 1997-03-12

Effective science teaching requires creativity, imagination, and innovation. In light of concerns about American

science literacy, scientists and educators have struggled to teach this discipline more effectively. *Science Teaching Reconsidered* provides undergraduate science educators with a path to understanding students, accommodating their individual differences, and helping them grasp the methods--and the wonder--of science. What impact does teaching style have? How do I plan a course curriculum? How do I make lectures, classes, and laboratories more effective? How can I tell what students are thinking? Why don't they understand? This handbook provides productive approaches to these and other questions. Written by scientists who are also educators, the handbook offers suggestions for having a greater impact in the classroom and provides resources for further research.

College Algebra and Trigonometry - Louis Leithold 1989-01-01

Response to Intervention in Math - Paul J. Riccomini 2009-12-28

Provides educators with instructions on applying response-to-intervention (RTI) while teaching and planning curriculum for students with learning disabilities.

The Survival Guide for Kids with Physical Disabilities and Challenges - Wendy L. Moss 2016-02-22

For many kids with physical disabilities and challenges, the barriers they face go beyond what they can and can't do with their bodies. Loaded with tools for coping with the intense social, emotional, and academic difficulties these students often must deal with--as well as their secret fears--this book helps kids succeed in and out of the classroom and confidently handle their physical challenges. Friendly illustrations, think-about-it prompts, true-to-life stories gathered from the authors' decades of experience, and specific tips and advice provide comfort, hope, and supportive guidance.

Mathematics for Human Flourishing - Francis Su 2020-01-07

"The ancient Greeks argued that the best life was filled with beauty, truth, justice, play and love. The mathematician Francis Su knows just where to find them."--Kevin Hartnett, Quanta Magazine" This is perhaps the most important mathematics book of our time. Francis Su shows mathematics is an experience of the mind and, most important, of the heart."--James Tanton, Global Math Project For mathematician Francis Su, a society without mathematical affection is like a city without concerts, parks, or museums. To miss out on mathematics is to live without experiencing some of humanity's most beautiful ideas. In this profound book, written for a wide audience but especially for those disenchanted by their past experiences, an award-winning mathematician and educator weaves parables, puzzles, and personal reflections to show how mathematics meets basic human desires--such as for play, beauty, freedom, justice, and love--and cultivates virtues essential for human flourishing. These desires and virtues, and the stories told here, reveal how mathematics

is intimately tied to being human. Some lessons emerge from those who have struggled, including philosopher Simone Weil, whose own mathematical contributions were overshadowed by her brother's, and Christopher Jackson, who discovered mathematics as an inmate in a federal prison. Christopher's letters to the author appear throughout the book and show how this intellectual pursuit can--and must--be open to all.

Model-Centered Learning - Lingguo Bu 2012-01-01

Model-Centered Learning: Pathways to Mathematical Understanding Using GeoGebra is the first book to report on the international use of GeoGebra and its growing impact on mathematics teaching and learning. Supported by new developments in model-centered learning and instruction, the chapters in this book move beyond the traditional views of mathematics and mathematics teaching, providing theoretical perspectives and examples of practice for enhancing students' mathematical understanding through mathematical and didactical modeling. Designed specifically for teaching mathematics, GeoGebra integrates dynamic multiple representations in a conceptually rich learning environment that supports the exploration, construction, and evaluation of mathematical models and simulations. The open source nature of GeoGebra has led to a growing international community of mathematicians, teacher educators, and classroom teachers who seek to tackle the challenges and complexity of mathematics education through a grassroots initiative using instructional innovations. The chapters cover six themes: 1) the history, philosophy, and theory behind GeoGebra, 2) dynamic models and simulations, 3) problem solving and attitude change, 4) GeoGebra as a cognitive and didactical tool, 5) curricular challenges and initiatives, 6) equity and sustainability in technology use. This book should be of interest to mathematics educators, mathematicians, and graduate students in STEM education and instructional technologies.

Mathematics Framework for California Public Schools - California. Department of Education 1999

International Journal of Educational Management and Development Studies - Ersyl T. Biray 2022-03-31

International Journal of Educational Management and Development Studies (IJEMDS) is an open access refereed journal focused on educational leadership, educational management, teaching and learning across all disciplines and levels, internationalization of education, transnational education and societal issues on educational development. The field of education has been continuously evolving as influenced by its nature and the societal factors. As the journal celebrates the very dynamic and complex nature of education, it provides educators and researchers a platform for their research findings. This allows researchers to apply multiple designs to describe, analyze and evaluate the history, current issues and the future direction of education in regional and international contexts.

ACT Math Prep Course - Jeff Kolby 2021-01-15

Comprehensive Prep for ACT Math. Every year, students pay \$1,000 and more to test prep companies to prepare for the math section of the ACT. Now you can get the same preparation in a book. Although the ACT math section is difficult, it is very learnable. ACT Math Prep Course presents a thorough analysis of ACT math and introduces numerous analytic techniques that will help you immensely, not only on the ACT but in college as well. Many of the exercises in this book are designed to prompt you to think like an ACT test writer. For example, you will find Duals. These are pairs of similar ACT math problems in which only one property is different. They illustrate the process of creating ACT questions. Features: * Comprehensive Review: Twenty-seven chapters provide complete review of ACT math. * Practice: Includes 188 examples and more than 400 exercises! * Diagnostic Test: The diagnostic test measures your strengths and weaknesses and directs you to areas you need to study more. * Performance: If your target is a top score, this is the book!

EBOOK: Teaching Secondary Mathematics with ICT - Sue Johnston-Wilder 2004-10-16

“This is a book all mathematics teachers and teacher educators should read! It brings together a wealth of insights from a range of authors... The major issues confronting teachers of mathematics who wish to use ICT in different domains of mathematics are addressed in a clear and accessible way.” Professor Celia Hoyles OBE, Dean of Research and Consultancy, Institute of Education, University of London Teaching Secondary

Mathematics with ICT shows the reader how to use Information and Communication Technology (ICT) effectively to enhance the teaching of mathematics in the secondary school. The book explains which forms of technology can be used to improve mathematics teaching and learning, how to get started and where to go for further information. The first two chapters provide a useful introduction for those new to teaching mathematics with ICT. Further chapters cover topics including: ICT and the curriculum: number, algebra, geometry and statistics Making use of interactive whiteboards in the classroom Using the internet and video-conferencing to enhance teaching The book includes practical classroom scenarios and case studies (for example, the government-funded MathsAlive! Initiative), as well as discussions of general issues, such as the role of feedback and the use of ICT in whole-class teaching. It draws on current research and is supplemented by a linked web site, which provides access to demonstration copies of software and sample files. It also includes a directory of resources with lists of organisations, web sites, projects and further reading. Key reading for Education students specialising in Mathematics and all those teaching secondary mathematics, including non-specialists and those on professional development courses. Visit the text-supporting website: www.openup.co.uk/jwp

Cincinnati Magazine - 2005-04

Cincinnati Magazine taps into the DNA of the city, exploring shopping, dining, living, and culture and giving readers a ringside seat on the issues shaping the region.