

Articles On Technology In The Classroom

articles on technology in the classroom: *Technology in the Classroom* Tom King, 1997-01-01 This collection of articles address three themes: the growing research supporting the belief that technology in education makes a difference for student learning; innovative ways to use technology in teaching; and firsthand accounts of schools that have successfully implemented technology in their classrooms. Through effective use, educators can implement technology in ways that transform classroom learning activities, enhance idea development and individual expression, promote peer collaboration and problem solving, and foster students' unique learning styles. The collection includes the following articles: Achieving Technological Equity and Equal Access to the Learning Tools of the 21st Century (Curman L. Gaines, Willie Johnson, and D. Thomas King); Linking Students to the Infosphere (Boris Berenfeld); Technologies as Tools for Transforming Learning Environments (Michael Hopkins); Can Integrated Instructional Technology Transform the Classroom? (Lani M. Van Dusen and Blaine R. Worthen); Communication through Multimedia in an Elementary Classroom (Elizabeth M. Riddle); Virtual Reality and Multiple Intelligences: Potentials for Higher Education (Hilary McLellan); Crossroads to the World (Dawn L. Morden); Engaging Students in a Knowledge Society (Marlene Scardamalia and Carl Bereiter); The Saturn School of Tomorrow (David A. Bennett and D. Thomas King); and It's Elementary! Internet in a K-5 School (Susan W. Hixson). Contains an index. (Author/SWC)

articles on technology in the classroom: *How Students Learn* National Research Council, Division of Behavioral and Social Sciences and Education, Committee on How People Learn, A Targeted Report for Teachers, 2005-01-23 How do you get a fourth-grader excited about history? How do you even begin to persuade high school students that mathematical functions are relevant to their everyday lives? In this volume, practical questions that confront every classroom teacher are addressed using the latest exciting research on cognition, teaching, and learning. *How Students Learn: History, Mathematics, and Science in the Classroom* builds on the discoveries detailed in the bestselling *How People Learn*. Now, these findings are presented in a way that teachers can use immediately, to revitalize their work in the classroom for even greater effectiveness. Organized for utility, the book explores how the principles of learning can be applied in teaching history, science, and math topics at three levels: elementary, middle, and high school. Leading educators explain in detail how they developed successful curricula and teaching approaches, presenting strategies that serve as models for curriculum development and classroom instruction. Their recounting of personal teaching experiences lends strength and warmth to this volume. The book explores the importance of balancing students' knowledge of historical fact against their understanding of concepts, such as change and cause, and their skills in assessing historical accounts. It discusses how to build straightforward science experiments into true understanding of scientific principles. And it shows how to overcome the difficulties in teaching math to generate real insight and reasoning in math students. It also features illustrated suggestions for classroom activities. *How Students Learn* offers a highly useful blend of principle and practice. It will be important not only to teachers, administrators, curriculum designers, and teacher educators, but also to parents and the larger community concerned about children's education.

articles on technology in the classroom: *National Education Technology Plan* Arthur P. Hershaft, 2011 Education is the key to America's economic growth and prosperity and to our ability to compete in the global economy. It is the path to higher earning power for Americans and is necessary for our democracy to work. It fosters the cross-border, cross-cultural collaboration required to solve the most challenging problems of our time. The National Education Technology Plan 2010 calls for revolutionary transformation. Specifically, we must embrace innovation and technology which is at the core of virtually every aspect of our daily lives and work. This book

explores the National Education Technology Plan which presents a model of learning powered by technology, with goals and recommendations in five essential areas: learning, assessment, teaching, infrastructure and productivity.

articles on technology in the classroom: Measurement Demystified David Vance, Peggy Parskey, 2020-11-17 Your Groundbreaking Framework for Measurement and Reporting Most people find measurement, analytics, and reporting daunting—and L&D professionals are no different. As these practices have become critically important for organizations' efforts to improve performance, talent development professionals have often been slow to embrace them for many reasons, including the seeming complexity and challenge of the practices. Few organizations have a well-thought-out measurement and reporting strategy, and there are often scant resources, limited time, and imperfect data to work with when organizations do attempt to create one. *Measurement Demystified: Creating Your L&D Measurement, Analytics, and Reporting Strategy* is a much-needed and welcomed resource that breaks new ground with a framework to simplify the discussion of measurement, analytics, and reporting as it relates to L&D and talent development practitioners. This book helps practitioners select and use the right measures for the right reasons; select, create, and use the right types of reports; and create a comprehensive measurement and reporting strategy. Recognizing the angst and reluctance people often show in these areas, authors and experts David Vance and Peggy Parskey break down the practices and processes by providing a common language and an easy-to-use structure. They describe five types of reports, four broad reasons to measure, and three categories of measures. Their method works for large and small organizations, even if yours is an L&D staff of one or two. The guidance remains the same: Start small and grow. *Measurement Demystified* is a great first book for talent development professionals with no prior knowledge of or experience with measurement and a valuable resource for measurement experts. Those adept at lower levels of training evaluation will grow their knowledge base and capabilities, while measurement experts will discover shortcuts and nuggets of information to enhance their practices. A more comprehensive treatment of these important topics will not be found elsewhere.

articles on technology in the classroom: Media Education David Buckingham, 2013-06-26 This book examines recent changes in media education and in young people's lives, and provides an accessible set of principles on which the media curriculum should be based, with a clear rationale for pedagogic practice. David Buckingham is one of the leading international experts in the field - he has more than twenty years' experience in media education as a teacher and researcher. This book takes account of recent changes both in the media and in young people's lives, and provides an accessible and cogent set of principles on which the media curriculum should be based. Introduces the aims and methods of media education or 'media literacy'. Includes descriptions of teaching strategies and summaries of relevant research on classroom practice. Covers issues relating to contemporary social, political and technological developments.

articles on technology in the classroom: Instructional Technology and Media for Learning Sharon E Smaldino, Deborah L Lowther, James D Russell, 2015-10-08 Note: The Enhanced eText features are only available in the Pearson eText format. They are not available in third-party eTexts or downloads, such as CourseSmart. For courses in Instructional Media and Technology, and Computers in Education A core text for Introduction to Educational Technology courses How to integrate a complete range of technology and media formats into classroom instruction using the ASSURE model for lesson planning. This text shows specifically and realistically how technology and media enhance and support everyday teaching and learning. Written from the viewpoint of the teacher, it demonstrates how to integrate a complete range of technology and media formats into classroom instruction using the ASSURE model for lesson planning. Ideal for educators at all levels who place a high value on learning, the book helps readers incorporate technology and media into best practice, to use them as teaching tools and to guide students in using them as learning tools. Examples come from elementary and secondary education. The new Eleventh Edition keeps readers up to pace with the innovations in all aspects of technology, particularly those related to computers, Web 2.0, social networks, and the Internet. The updating throughout reflects the acceleration trend

toward digitizing information and school use of telecommunications resources, such as the Web. It also addresses the interaction among the roles of teachers, technology, coordinators, and school media specialists, all complementary and interdependent teams within the school. This text provides the ideal teaching and learning experience through: The ASSURE Model of lesson planning and the ASSURE Classroom Case Studies. A number of helpful pedagogical aids that provide reinforcement and ensure understanding. A focus on today's most up-to-date expectations and innovations.

articles on technology in the classroom: The Digital Classroom David T. Gordon, 2000 Educators and technology experts share their thoughts on classroom technology and how equity, the digital divide, and other issues need to be addressed to ensure students and teachers are realizing the full potential of different technologies.

articles on technology in the classroom: Effective Teaching with Technology in Higher Education Tony Bates, Gary Poole, 2003-08-15 Universities today are faced with difficult decisions about how to integrate technology into their curriculum. Rather than merely offering advice on the applications of technology to teaching, this book provides a pedagogical foundation for decisions about and use of technology within the curriculum.

articles on technology in the classroom: Teaching and Learning with Technology Judy Lever-Duffy, Jean B. McDonald, 2011 Teaching and Learning with Technology Fourth edition continues to offer a foundation in learning theory and instructional design that helps position educational technology within the framework of teaching and learning. The text explores current and emerging technologies available to teachers. Using practical applications, examples from the classroom, and an array of reflection activities, the text offers students the opportunity to fully explore and apply technologies as tools to enhance teaching and learning. New Chapter 4 on diversity highlights technologies for special education students, ESL students, gifted, as well as diverse learning styles. The Fourth edition's new Chapter 14 New Technologies focuses on emerging technologies relevant to today's educators. Faculty will find a full range of in-text activities including reviews, group, critical thinking, and hands-on experiences as well as marginal references to the robust MyEducationLab website.

articles on technology in the classroom: Tasks Before Apps Monica Burns, 2017-10-09 Educator and technology consultant Monica Burns shares strategies, tools, and insights that all teachers can use to effectively incorporate technology in the classroom.

articles on technology in the classroom: Adaptive Educational Technologies for Literacy Instruction Scott A. Crossley, Danielle S. McNamara, 2016-06-17 While current educational technologies have the potential to fundamentally enhance literacy education, many of these tools remain unknown to or unused by today's practitioners due to a lack of access and support. Adaptive Educational Technologies for Literacy Instruction presents actionable information to educators, administrators, and researchers about available educational technologies that provide adaptive, personalized literacy instruction to students of all ages. These accessible, comprehensive chapters, written by leading researchers who have developed systems and strategies for classrooms, introduce effective technologies for reading comprehension and writing skills.

articles on technology in the classroom: *The Knowledge Gap* Natalie Wexler, 2020-08-04 The untold story of the root cause of America's education crisis--and the seemingly endless cycle of multigenerational poverty. It was only after years within the education reform movement that Natalie Wexler stumbled across a hidden explanation for our country's frustrating lack of progress when it comes to providing every child with a quality education. The problem wasn't one of the usual scapegoats: lazy teachers, shoddy facilities, lack of accountability. It was something no one was talking about: the elementary school curriculum's intense focus on decontextualized reading comprehension skills at the expense of actual knowledge. In the tradition of Dale Russakoff's *The Prize* and Dana Goldstein's *The Teacher Wars*, Wexler brings together history, research, and compelling characters to pull back the curtain on this fundamental flaw in our education system--one that fellow reformers, journalists, and policymakers have long overlooked, and of which the general public, including many parents, remains unaware. But *The Knowledge Gap* isn't just a story of what

schools have gotten so wrong--it also follows innovative educators who are in the process of shedding their deeply ingrained habits, and describes the rewards that have come along: students who are not only excited to learn but are also acquiring the knowledge and vocabulary that will enable them to succeed. If we truly want to fix our education system and unlock the potential of our neediest children, we have no choice but to pay attention.

articles on technology in the classroom: *How People Learn* National Research Council, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Developments in the Science of Learning with additional material from the Committee on Learning Research and Educational Practice, 2000-08-11 First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods—to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

articles on technology in the classroom: **Intentional Tech** Derek Bruff, 2019 Introduction -- Times for telling -- Practice and feedback -- Thin slices of learning -- Knowledge organizations -- Multimodal assignments -- Learning communities -- Authentic audiences -- Conclusion.

articles on technology in the classroom: *Teaching Machines* Bill Ferster, 2014-11-17 Technology promises to make learning better, cheaper, faster—but rarely has it kept that promise. The allure of educational technology is easy to understand. Classroom instruction is an expensive and time-consuming process fraught with contradictory theories and frustratingly uneven results. Educators, inspired by machines' contributions to modern life, have been using technology to facilitate teaching for centuries. In *Teaching Machines*, Bill Ferster examines past attempts to automate instruction from the earliest use of the postal service for distance education to the current maelstrom surrounding Massive Open Online Courses. He tells the stories of the entrepreneurs and visionaries who, beginning in the colonial era, developed and promoted various instructional technologies. Ferster touches on a wide range of attempts to enhance the classroom experience with machines, from hornbooks, the Chautauqua movement, and correspondence courses to B. F. Skinner's teaching machine, intelligent tutoring systems, and eLearning. The famed progressive teachers, researchers, and administrators that the book highlights often overcame substantial hurdles to implement their ideas, but not all of them succeeded in improving the quality of education. *Teaching Machines* provides invaluable new insight into our current debate over the efficacy of educational technology.

articles on technology in the classroom: *Blogs, Wikis, Podcasts, and Other Powerful Web Tools for Classrooms* Will Richardson, 2010-03 Intended for educators of various levels and disciplines who want to understand the Internet tools and learn how to use them effectively in the classroom, this work offers advice on how teachers and students can use the Web to learn more,

create more, and communicate better.

articles on technology in the classroom: *Shaping Higher Education with Students* Vincent C. H. Tong, Alex Standen, Mina Sotiriou, 2018-03-06 Forging closer links between university research and teaching has become an important way to enhance the quality of higher education across the world. As student engagement takes centre stage in academic life, how can academics and university leaders engage with their students to connect research and teaching more effectively? In this highly accessible book, the contributors show how students and academics can work in partnership to shape research-based education. Featuring student perspectives, it offers academics and university leaders practical suggestions and inspiring ideas on higher education pedagogy, including principles of working with students as partners in higher education, connecting students with real-world outputs, transcending disciplinary boundaries in student research activities, connecting students with the workplace, and innovative assessment and teaching practices. Written and edited in full collaboration with students and leading educator-researchers from a wide spectrum of academic disciplines, this book poses fundamental questions about learning and learning communities in contemporary higher education.

articles on technology in the classroom: *Just Ask Us* Heather Wolpert-Gawron, 2017-10-04 Based on over 1000 nationwide student surveys, these 10 deep engagement strategies help you implement achievement-based cooperative learning. Includes video and a survey sample.

articles on technology in the classroom: *Developing the ICT Capable School* Steve Kennewell, John Parkinson, Howard Tanner, 2002-01-04 This book helps readers to improve the development of ICT capability through understanding the factors at work in whole school contexts. Based on research that examined schools' approaches to the development of pupils' ICT capability and identified the factors which lead to success, it provides practical advice, but with clear justifications in terms of well-researched principles and illustrations. It covers issues specific to both primary and secondary phases of education together with a range of common concerns and will be of use to practitioners and school staff involved in planning and delivering ICT training. This title will therefore provide readers with: Greater understanding or personal ICT capability Knowledge of effective management, teaching methods and co-ordination strategies for ICT Understanding of the importance of a whole school approach

articles on technology in the classroom: *The Role of Technology in Improving K-12 School Safety* Heather L. Schwartz, Rajeev Ramchand, Dionne Barnes-Proby, Sean Grant, Brian A. Jackson, Kristin Leuschner, Mauri Matsuda, Jessica M. Saunders, 2016 The report categorizes school safety technologies, summarizes research on school violence, presents six case studies of innovative technologies, and summarizes experts' views of technologies and safety problems and their rankings of technology needs.

articles on technology in the classroom: *National Educational Technology Standards for Students* International Society for Technology in Education, 2007 This booklet includes the full text of the ISTE Standards for Students, along with the Essential Conditions, profiles and scenarios.

articles on technology in the classroom: *The Passion-Driven Classroom* Angela Maiers, Amy Sandvold, 2014-01-09 Join The Passion-Driven Classroom Summer Book Club on the Curriculum 21 Ning! Discover ways to cultivate a thriving and passionate community of learners - in your classroom! In this book, educators and consultants Angela Maiers and Amy Sandvold show you how to spark and sustain your students' energy, excitement, and love of learning. This book presents ideas for planning and implementing a Clubhouse Classroom, where passion meets practice every day. In the Clubhouse Classroom, students learn new skills and explore their talents with the help of educators who are invigorated by the subjects they teach. Contents include: Achievement Gap or Passion Gap? A Passion-Driven Classroom: The Essentials Organizing the Clubhouse Classroom Managing the Clubhouse Classroom Learn how to move away from prescription-driven learning toward passion-driven learning, and begin to make a real difference in the lives of your students. These strategies will help teachers in Grades K-12 put the heart back into teaching and learning - and make a lasting impact as educators!

articles on technology in the classroom: Stand Tall, Molly Lou Melon Patty Lovell, 2011-06-29 Be yourself like Molly Lou Melon no matter what a bully may do. Molly Lou Melon is short and clumsy, has buck teeth, and has a voice that sounds like a bullfrog being squeezed by a boa constrictor. She doesn't mind. Her grandmother has always told her to walk proud, smile big, and sing loud, and she takes that advice to heart. But then Molly Lou has to start in a new school. A horrible bully picks on her on the very first day, but Molly Lou Melon knows just what to do about that.

articles on technology in the classroom: The World Is Open Curtis J. Bonk, 2009-07-06 Discover the dramatic changes that are affecting all learners Web-based technology has opened up education around the world to the point where anyone can learn anything from anyone else at any time. To help educators and others understand what's possible, Curt Bonk employs his groundbreaking WE-ALL-LEARN model to outline ten key technology and learning trends, demonstrating how technology has transformed educational opportunities for learners of every age in every corner of the globe. The book is filled with inspiring stories of ordinary learners as well as interviews with technology and education leaders that reveal the power of this new way of learning. Captures the global nature of open education from those who are creating and using new learning technologies Includes a new Preface and Postscript with the latest updates A free companion web site provides additional stories and information Using the dynamic WE-ALL-LEARN model, learners, educators, executives, administrators, instructors, and parents can discover how to tap into the power of Web technology and unleash a world of information.

articles on technology in the classroom: Disrupting Class, Expanded Edition: How Disruptive Innovation Will Change the Way the World Learns Clayton M. Christensen, Curtis W. Johnson, Michael B. Horn, 2010-09-17 Clay Christensen's groundbreaking bestselling work in education now updated and expanded, including a new chapter on Christensen's seminal Jobs to Be Done theory applied to education. Provocatively titled, *Disrupting Class* is just what America's K-12 education system needs--a well thought-through proposal for using technology to better serve students and bring our schools into the 21st Century. Unlike so many education 'reforms,' this is not small-bore stuff. For that reason alone, it's likely to be resisted by defenders of the status quo, even though it's necessary and right for our kids. We owe it to them to make sure this book isn't merely a terrific read; it must become a blueprint for educational transformation. —Joel Klein, Chancellor of the New York City Department of Education A brilliant teacher, Christensen brings clarity to a muddled and chaotic world of education. —Jim Collins, bestselling author of *Good to Great* “Just as iTunes revolutionized the music industry, technology has the potential to transform education in America so that every one of the nation’s 50 million students receives a high quality education. *Disrupting Class* is a must-read, as it shows us how we can blaze that trail toward transformation.” —Jeb Bush, former Governor of Florida According to recent studies in neuroscience, the way we learn doesn't always match up with the way we are taught. If we hope to stay competitive-academically, economically, and technologically-we need to rethink our understanding of intelligence, reevaluate our educational system, and reinvigorate our commitment to learning. In other words, we need disruptive innovation. Now, in his long-awaited new book, Clayton M. Christensen and coauthors Michael B. Horn and Curtis W. Johnson take one of the most important issues of our time-education-and apply Christensen's now-famous theories of disruptive change using a wide range of real-life examples. Whether you're a school administrator, government official, business leader, parent, teacher, or entrepreneur, you'll discover surprising new ideas, outside-the-box strategies, and straight-A success stories. You'll learn how: Customized learning will help many more students succeed in school Student-centric classrooms will increase the demand for new technology Computers must be disruptively deployed to every student Disruptive innovation can circumvent roadblocks that have prevented other attempts at school reform We can compete in the global classroom-and get ahead in the global market Filled with fascinating case studies, scientific findings, and unprecedented insights on how innovation must be managed, *Disrupting Class* will open your eyes to new possibilities, unlock hidden potential, and get you to think differently.

Professor Christensen and his coauthors provide a bold new lesson in innovation that will help you make the grade for years to come. The future is now. Class is in session.

articles on technology in the classroom: *Computers as Mindtools for Schools* David H. Jonassen, 2000 This book provides a thorough explanation of MindtoolsM197>alternative ways of using computer applications to engage learners in constructive, higher-order thinking about specific areas of study. It presents a rationale for using these tools, discusses individual Mindtools and their use, and suggests effective ways to teach with each Mindtool. Weaves a critical thinking framework throughout the text. Expands coverage of systems modeling tools with new sections on analysis and reasoning. Adds an entirely new section of the book, which includes chapters on intentional information searching via Internet and visualization tools. For educators and school administrators.

articles on technology in the classroom: *Literacy for Learning* Ontario. Ministry of Education, Aubut, Réjean, Ontario. Expert Panel on Literacy in Grades 4 to 6, 2004

articles on technology in the classroom: *IEA International Computer and Information Literacy Study 2018 Assessment Framework* Julian Fraillon, John Ainley, Wolfram Schulz, Daniel Duckworth, Tim Friedman, 2019-07-02 This open access book presents the assessment framework for IEA's International Computer and Information Literacy Study (ICILS) 2018, which is designed to assess how well students are prepared for study, work and life in a digital world. The study measures international differences in students' computer and information literacy (CIL): their ability to use computers to investigate, create, participate and communicate at home, at school, in the workplace and in the community. Participating countries also have an option for their students to complete an assessment of computational thinking (CT). The ICILS assessment framework articulates the basic structure of the study, providing a description of the field and the constructs to be measured. This book outlines the design and content of the measurement instruments, sets down the rationale for those designs, and describes how measures generated by those instruments relate to the constructs. Hypothesized relations between constructs provide the foundation for some of the analyses that follow. Above all, the framework links ICILS to other similar research, enabling the contents of this assessment framework to combine theory and practice in an explication of both the 'what' and the 'how' of ICILS.

articles on technology in the classroom: *Handbook of Research on Educational Communications and Technology* David Jonassen, Michael J. Spector, Marcy Driscoll, M. David Merrill, Jeroen van Merriënboer, Marcy P. Driscoll, 2008-09-25 First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company.

articles on technology in the classroom: *Building Online Learning Communities* Rena M. Palloff, Keith Pratt, 2009-12-30 Building Online Learning Communities further explores the development of virtual classroom environments that foster a sense of community and empower students to take charge of their learning to successfully achieve learning outcomes. This is the second edition of the groundbreaking book by Rena Palloff and Keith Pratt and has been completely updated and expanded to include the most current information on effective online course development and delivery. A practical, hands-on guide, this resource is filled with illustrative case studies, vignettes, and examples from a wide variety of successful online courses. The authors offer proven strategies for handling challenges that include: Engaging students in the formation of an online learning community. Establishing a sense of presence online. Maximizing participation. Developing effective courses that include collaboration and reflection. Assessing student performance. Written for faculty in any distance learning environment, this revised edition is based on the authors many years of work in faculty development for online teaching as well as their extensive personal experience as faculty in online distance education. Rena M. Palloff and Keith Pratt share insights designed to guide readers through the steps of online course design and delivery.

articles on technology in the classroom: *Oversold and Underused* Larry CUBAN, 2009-06-30 Impelled by a demand for increasing American strength in the new global economy, many educators, public officials, business leaders, and parents argue that school computers and

Internet access will improve academic learning and prepare students for an information-based workplace. But just how valid is this argument? In *Oversold and Underused*, one of the most respected voices in American education argues that when teachers are not given a say in how the technology might reshape schools, computers are merely souped-up typewriters and classrooms continue to run much as they did a generation ago. In his studies of early childhood, high school, and university classrooms in Silicon Valley, Larry Cuban found that students and teachers use the new technologies far less in the classroom than they do at home, and that teachers who use computers for instruction do so infrequently and unimaginatively. Cuban points out that historical and organizational economic contexts influence how teachers use technical innovations. Computers can be useful when teachers sufficiently understand the technology themselves, believe it will enhance learning, and have the power to shape their own curricula. But these conditions can't be met without a broader and deeper commitment to public education beyond preparing workers. More attention, Cuban says, needs to be paid to the civic and social goals of schooling, goals that make the question of how many computers are in classrooms trivial.

articles on technology in the classroom: Technology & Teacher Education Howard D. Mehlinger, Susan M. Powers, 2002 *Technology and Teacher Education* is a guide of invaluable resources and information for faculty to use on-the-job. This text helps instructors by discussing how technology impacts learning, changes teacher education programs, and affects the instructor's role in delivering instruction.

articles on technology in the classroom: Integrating Technology Sarah Gilmore, Katierose Deos, 2020-03-10 What is the role of technology in education? If we are going to use technology in meaningful and effective ways, then we need to shift our focus from the what of the tools to the how and the why. Whatever technology you have, it can be integrated in a way that enhances teaching and learning. By taking an integrated approach to technology, you put student learning at the center as its purpose. Effective technology integration isn't about what you have, it's about how you use it. And how you use it depends on so much more than just curriculum, or just devices, or just pedagogy. It depends on having a purpose-based and student-centered approach to integrating all aspects of technology in learning. Sarah Gilmore and Katierose Deos outline six key elements-purpose, mindset, pedagogy, curriculum, resources and infrastructure, and leadership-that have an influence on the effectiveness of technology integration. Each chapter is clearly organized to focus on these elements in detail, presenting a vision for why they matter, how they connect, and how you can take steps to develop effective technology integration within your practice or your school. *Integrating Technology* provides practical ideas, advice, and examples that offer concrete support to help teachers and administrators plan for, scaffold, and use the technology they have for the benefit of student learning. There is no one-size-fits-all when it comes to technology integration. Wherever you are in the world and whatever your role is, you can harness the power of technology to make teaching and learning more meaningful, relevant, and effective. Let *Integrating Technology* be your guide and start making effective technology integration a reality in your school community.

articles on technology in the classroom: The Science of Reading Margaret J. Snowling, Charles Hulme, 2008-04-15 *The Science of Reading: A Handbook* brings together state-of-the-art reviews of reading research from leading names in the field, to create a highly authoritative, multidisciplinary overview of contemporary knowledge about reading and related skills. Provides comprehensive coverage of the subject, including theoretical approaches, reading processes, stage models of reading, cross-linguistic studies of reading, reading difficulties, the biology of reading, and reading instruction. Divided into seven sections: Word Recognition Processes in Reading; Learning to Read and Spell; Reading Comprehension; Reading in Different Languages; Disorders of Reading and Spelling; Biological Bases of Reading; Teaching Reading. Edited by well-respected senior figures in the field.

articles on technology in the classroom: The World Needs a New Curriculum Marc Prensky, 2014 Three essays by Marc Prensky

articles on technology in the classroom: Teaching and Digital Technologies Michael Henderson, Geoff Romeo, 2016-01-08 *Teaching and Digital Technologies: Big Issues and Critical Questions* helps both pre-service and in-service teachers to critically question and evaluate the reasons for using digital technology in the classroom. Unlike other resources that show how to use specific technologies – and quickly become outdated, this text empowers the reader to understand why they should (or should not) use digital technologies, when it is appropriate (or not), and the implications arising from these decisions. The text directly engages with policy, the Australian Curriculum, pedagogy, learning and wider issues of equity, access, generational stereotypes and professional learning. The contributors to the book are notable figures from across a broad range of Australian universities, giving the text a unique relevance to Australian education while retaining its universal appeal. *Teaching and Digital Technologies* is an essential contemporary resource for early childhood, primary and secondary pre-service and in-service teachers in both local and international education environments.

articles on technology in the classroom: Computers As Cognitive Tools Susanne P. Lajoie, Sharon J. Derry, 2013-05-13 Highlighting and illustrating several important and interesting theoretical trends that have emerged in the continuing development of instructional technology, this book's organizational framework is based on the notion of two opposing camps. One evolves out of the intelligent tutoring movement, which employs artificial-intelligence technologies in the service of student modeling and precision diagnosis, and the other emerges from a constructivist/developmental perspective that promotes exploration and social interaction, but tends to reject the methods and goals of the student modelers. While the notion of opposing camps tends to create an artificial rift between groups of researchers, it represents a conceptual distinction that is inherently more interesting and informative than the relatively meaningless divide often drawn between intelligent and unintelligent instructional systems. An evident trend is that researchers in both camps view their computer learning environments as cognitive tools that can enhance learning, performance, and understanding. Cognitive tools are objects provided by the instructional environment that allow students to incorporate new auxiliary methods or symbols into their social problem solving which otherwise would be unavailable. A final section of the book represents researchers who are assimilating and accommodating the wisdom and creativity of their neighbors from both camps, perhaps forming the look of technology for the future. When the idea of model tracing in a computer-based environment is combined with appreciation for creative mind-extension cognitive tools and for how a community of learners can facilitate learning, a camp is created where AI technologists and social constructivist learning theorists can feel equally at home.

articles on technology in the classroom: Technology and Adolescent Health Megan A. Moreno, Andrea J. Hoopes, 2020-03-20 *Technology and Adolescent Health: In Schools and Beyond* discusses how today's adolescents are digital natives, using technology at home and in school to access information, for entertainment, to socialize and do schoolwork. This book summarizes research on how technology use impacts adolescent mental health, sleep, physical activity and eating habits. In addition, it identifies monitoring and screening technology-based tools for use with adolescents.

articles on technology in the classroom: Teaching and Mobile Learning Flavia Santoianni, Corrado Petrucco, Alessandro Ciasullo, Daniele Agostini, 2021-10 *Mobile learning (or M-Learning)* is nowadays a frontier trend of the digital world. *Teaching and Mobile Learning: Interaction Educational Design* it's a ground breaking book which shows to instructional designers, curriculum developers, and learning professionals how to design innovative educational mobile learning environments. Its scope is to solicit teachers, educators, and practitioners to renew their own teaching and learning methodologies narrowing themselves to educational digital models related to mobile technologies. Mobile learning process can be seen as a real revolution whereby concepts like space, sound production, and learning get more and more customized in always-connected and ever-changing educational mobile learning environments. Researchers and academicians can be interested in cognition processes involved in learning management of mixed reality and virtual

bodies. Mixed reality mobile technologies can become indeed tools for education and training in mixed reality mobile learning. By reading *Teaching and Mobile Learning: Interaction Educational Design*, lecturer will discover how user and device innovative interactions may be borderline with attention deficit disorder, digital amnesia, and information overload. *Teaching and Mobile Learning: Interaction Educational Design* develops educational knowledge on how to manage mobile technology and specific learning disorders, to monitor the use of smartphones and technology tools and to empower their role in learning enhancement processes--

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McNamara, & Murphy, 2003). Many studies have shown the advantages of using technology in classroom instruction. ul projects to engag . Technology can be used to restructure and ...

Teaching and Learning with Technology: Effectiveness of ICT ...

Teachers need sufficient ICT skills to implement the technology and to have high confident level to use it in a classroom setting. Besides, teachers require insight into the pedagogical role of ICT, ...

1:1 Technology and its Effect on Student Academic ...

This study set out to show how technology can positively affect student academic achievement and motivation in the classroom.

Increasing Meaningful Assistive Technology Use in the ...

students. The students in the intern's classroom were able to utilize a classroom iPad in a new way with the use of the switch interface. Although switches were also borrowed, there was a ...

Effect of Technology Integration Middle School Math ...

International Journal of Education in Mathematics, Science, and Technology (IJEMST) 559 2011; Morgan, 2015), and the use of 188 technology tools (Harris, 2016). The underlying framework ...

Technology Implementation In K-12 Schools: A Research ...

With the advent of computers and technology, educators, parents, and politicians immediately saw the implications it had for improving the quality of education students receive. When trying ...

The Effect of Smart Boards on the Cognition and Motivation ...

proficient users of digital technology. Naturally, the definition is not unequivocal and it changes over the years and in different societies (Esther et al., 2015). Studies that examined the use of ...

Mobile phones in the classroom: Policies and potential ...

integrating technology with pedagogy, effects of student mobile phone use, and technology policies. Integrating technology into learning Higher education demands that instructors ...

Flipgrid: Students' Perceptions of its Advantages and ... - ed

International Journal of Technology in Education and Science (IJTES) is affiliated with International Society for Technology, Education, and Science (ISTES): www.istes.org ...

Best Practices and Biblical Worldview for Technology ...

examine how to best glorify God with appropriate technology use in the classroom. Students were instructed using common research-based practices and assignments. These included ...

Perspectives on the Integration of Technology and ...

The new 2014 Technology and Engineering Literacy Framework for NAEP will be entirely computer administered and will include specifications for interactive, simulation-based tasks ...

Technology and its use in Education: Present Roles and ...

classroom applications of each technology; (9) future recommendations for the use of distributed learning and electronic databases. (Conclusions) Further development and use of educational ...

Integration of Technology in Teaching and Learning - ed

the implementation of new technology efforts and ways to address these. Potential Barriers: 1) insufficient resources, including inadequate access to technology and planning time; 2) ...

Impact of Technology on the Academic Performance of ...

coming of modern technology, especially the computer, classroom instruction has been changed forever. Students can now perform different tasks and take up an active role in learning with ...

Technology in and out of the Classroom: A Mixed Method ...

studied covering 3 subsections: how technology is used in the classroom, behavioral problems, and how technology is used outside of the classroom. The variety of sources illustrated how ...

Anatolian Journal of Education October 2022 Vol.7, No.2 e ...

that prevent k-12 teachers to use technology (Hali, 2021). Teachers' belief on using technology influences their decisions of not introducing technology in the classroom (Iskandar, 2021; ...

Revisiting the Early Use of Technology: A Critical Shift from ...

the technology experience. Issues and Problems with Early Technology Use It is important to note that there are also areas of serious concern related to overuses of technology in young ...

Technology and Interactive Media as Tools in Early ...

Technology tools for communication, collaboration, social network-ing, and user-generated content have transformed mainstream culture. In particular, these tools have transformed how ...

Teacher Practice and Integration of ICT: Why Are or Aren't ...

number of South African teachers are effectively integrating technology in the classroom (Nkula & Krauss, 2014; Padayachee, 2016). The DBE estimates that a mere 26% of South African ...

Evidence-based Classroom Behaviour Management Strategies

in-the-ear and webcam technology, conducted by Scheeler and colleagues and reviewed in their recent paper (Scheeler, McKinnon & Stout, 2011) shows promise in providing direct feedback. ...

Technology in Gifted Education: A Review of Best Practices ...

extensive, with articles on best practices, but the empirical research in this area is still emerging. With the increasing interest and awareness about integrating technology, this review will be ...

Flexible Seating Impact on Classroom Environment - ed

Identifying the factors that allow for student success in the classroom are very important. There are many factors that may play a role in this, and the classroom environment is essential. The ...

Indigenous Knowledge Systems: implications for natural ...

and technology. Context It would have been extremely useful if educators were able to grasp the detail and depth of how subjective meanings mediate the micro-social processes involved ...

The Effects of Chromebook Use on Student Engagement - ed

of technology, there have been many challenges in the classroom. Technology and the implementation of the 1:1 Chromebook program have posed both positive and negative effects ...

Using technology to encourage critical thinking

Using technology to encourage critical thinking . Abstract when using technology in the classroom. Some of the barriers include lack of administrative and financial support. Another ...

ICT in Education: A Critical Literature Review and Its Implications

International Journal of Education and Development using Information and Communication Technology (IJEDICT), 2013, Vol. 9, Issue 1, pp. 112-125 ! ICT in Education: A Critical ...

Use of Educational Technology for Instruction in Public ...

A-6. Helping teachers use educational technology: Percent of public schools reporting on the types of staff who work with teachers to integrate educational technology into classroom ...

Examining Social Learning in an Active Learning Classroom ...

However, the classroom changed from traditional to active learning for Fall semester. The structure of the course included weekly readings, classroom discussions, and practices. Data ...

Can Technology Transform Communication between Schools, ...

time. More recently, advances in information technology have created opportunities for personalized learning through adaptive tutoring programs, Massive Open Online Courses, and ...

The Role of Multi-Sensory Learning in Elementary Classrooms ...

Technology Being able to use technology in the classroom allows for the enhancement of the learning experience through a multi-sensory approach and allows for pieces of technology to ...

Enrichment and Gifted Education Pedagogy to Develop ...

development centers in the classroom. Independent and Small Group Projects, Studies, and Explorations (Opportunities for Creative Productivity) Enable the development of creative ...

Utilizing Technology to Increase Language Understanding for ...

The impact of technology, on any classroom, will be discussed and analyzed. Literature Review Part I: Using Technology for ESL Instruction . In a study conducted by Andrei et al. (2017), ...

Formative Assessment with Game-based Technology

Research has found that the use of technology in the classroom can improve student engagement (Schindler et al., 2017) and may improve student learner outcomes (Bond & Bedenlier, 2019). ...

www.ijemst.com The Effect of Smart Board Use on Academic ...

Technology (IJEMST), 8(3), 261-273. This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub ...

Using Technology Appropriately in the Preschool Classroom

To use technology as one of many effective teaching tools, apply the following principles and ideas:

1. Incorporating technology in the classroom is a choice, not a necessity. While ...

NEW TECHNOLOGY AND TEACHER PRODUCTIVITY - Scholars ...

technology is both a potential contributor to observed performance differences and a potential intervention to improve performance, but, to date, it has received little attention in the empirical ...

Digital Literacy Skills Instruction and Increased Skills Proficiency

As education moves more towards using technology in the classroom and preparing all students for success beyond the classroom, it has become more important to evaluate the how, why, ...

Effectiveness of Video Presentation as a Classroom ...

in the classroom instruction. The role of technology in the field of education is four-fold: it is included as a part of the curriculum, as an instructional delivery system, as a means of aiding ...

Technology-supported Design and Problem Elementary ...

be enriched using immersive and interactive technology, such as simulations and virtual reality, to facilitate learning multiple subjects at the same time. Technology can also bring remote subject ...

The Impact of Technology Integration on Secondary Student ...

The Impact of Technology Integration on Secondary Student Learning Emma Lee Martin Bethel University Follow this and additional works at: <https://spark.bethel.edu/etd> Recommended ...

EXPLORING THE USE OF TECHNOLOGY IN THE ...

the need for careful consideration of how technology is integrated into the classroom, as well as the importance of understanding students' and teachers' experience on its use. How to cite : ...

The Impact of Digital Technology on Learning: A Summary ...

technology in the classroom which is important: the how rather than the what. This is the crucial lesson emerging from the research. Taken together, the correlational and experimental ...

The impact of interactive Smart boards on students' learning ...

International Journal of Education and Development using Information and Communication Technology (IJEDICT), 2020, Vol. 16, Issue 2, pp. 22-39 The impact of interactive Smart ...

Adult Educators Adopting Technology in Their Classrooms ...

Leveraging Technology Inside the Classroom (1), Technology as a Resource Outside the Classroom (2), and Supporting Adult Learners' Retention (3). During this phase, team ...

Elementary educator perceptions of student digital safety ...

interactions with technology and concerns about negative uses of technology that impact digital safety. In this study, we interviewed ten elementary educators to understand their perceptions ...

Flipped Classroom Research and Trends from Different ...

classroom approach, and some technology tools were used as the online platform for its practice. Analysis of the impacts showed that flipped classroom brought positive impacts toward ...

Improving Student Engagement Despite Lowering Attention ...

• Articles in English • Articles that focused on attention spans, engagement strategies, technology, and the classroom Methods 1.Evaluating different technological devices in the classroom and ...

Interactive Projector as an Interactive Teaching Tool in the ...

However, when the educational technology is integrated into a learning environment, there are at least three subjects interacting with: teacher, student, and the technology (in this case, ...

DIGITAL TECHNOLOGIES IN MATHEMATICS CLASSROOMS: ...

successful, meaningful and transformative technology integration in mathematics classroom. I focus on teachers as key players for this integration, calling for more teacher involvement in ...

The Use of Technology to Enhance The Learning Experience ...

TECHNOLOGY ENHANCES ESL STUDENTS' LEARNING EXPERIENCE (1982) theory revolves around the idea that in order for a learner to acquire a language, he should be exposed to rich ...

EDUCATIONAL TECHNOLOGY AND ITS EFFECTIVE USE

technology integration in the classroom is an important component for student success in mathematics. Through their work, Cheung and Slavin (2013) determine that moderate ...

Technology and Secondary Writing: A Review of the ...

environment. These tenets provided a lens to view technology in the secondary writing classroom. Nicolini (2007) demonstrated that technology can serve as an asset to instruction and should ...

Examining Barriers to Technology Integration Practices of K ...

technology into their classroom practice. The technology acceptance model and the barrier to technology integration were the frameworks for this study. The research questions explored ...