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A Framework for K-12 Science Education National Standards & Grade-Level Outcomes for K-12 Physical Education Thriving as an Online K-12 Educator Transitions to K-12 Education Systems Curriculum Integration K-12 Handbook of Research on K-12 Online and Blended Learning Engineering in K-12 Education Handbook on Digital Learning for K-12 Schools Common Standards for K-12 Education? Selecting Instructional Materials Reopening K-12 Schools During the COVID-19 Pandemic Changing Expectations for the K-12 Teacher Workforce Standards for K-12 Engineering Education? Visible Learning for Science, Grades K-12 Teaching English Language Learners K-12 Exploring the Effectiveness of Online Education in K-12 Environments Successful K-12 STEM Education Classroom Management K-12 Classroom Teaching Optimizing K-12 Education through Online and Blended Learning K-12 Education: Concepts, Methodologies, Tools, and Applications Millennials & K-12 Schools Attracting PhDs to K-12 Education Nutrition Education in the K-12 Curriculum Tablets in K-12 Education: Integrated Experiences and Implications Inspiring Creativity and Innovation in K-12 Creating Meaningful Museum Experiences for K-12 Audiences Service-learning and Community Service in K-12 Public Schools Teaching ESL K-12 Problems as Possibilities Online Learning The Handbook of TESOL in K-12 Designing Effective Distance and Blended Learning Environments in K-12 What Works in K-12 Online Learning Monitoring Progress Toward Successful K-12 STEM Education Building Capacity for Teaching Engineering in K-12 Education The Essentials of World Languages, Grades K-12 No Reluctant Citizens Social Justice and Culturally-Affirming Education in K-12 Settings K-12 Science and Math Education Across the Federal Agencies

A Framework for K-12 Science Education

2012-03-28

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

National Standards & Grade-Level Outcomes for K-12 Physical Education

2014-03-13

focused on physical literacy and measurable outcomes empowering physical educators to help students meet the common core standards and coming from a recently renamed but longstanding organization intent on shaping a standard of excellence in physical education national standards grade level outcomes for k 12 physical education is all that and much more created by shape america society of health and physical educators formerly aahperd this text unveils the new national standards for k 12 physical education the standards and text have been retooled to support students holistic development this is the third iteration of the national standards for k 12 physical education and this latest version features two prominent changes the term physical literacy underpins the standards it encompasses the three domains of physical education psychomotor cognitive and affective and considers not only physical competence and knowledge but also attitudes motivation and the social and psychological skills needed for participation grade level outcomes support the national physical education standards these measurable outcomes are organized by level elementary middle and high school and by standard they provide a bridge between the new standards and k 12 physical education curriculum development and make it easy for teachers to assess and track student progress across grades resulting in physically literate students in developing the grade level outcomes the authors focus on motor skill competency student engagement and intrinsic motivation instructional climate gender differences lifetime activity approach and physical activity all outcomes are written to align with the standards and with the intent of fostering lifelong physical activity national standards grade level outcomes for k 12 physical education presents the standards and outcomes in ways that will help preservice teachers and current practitioners plan curricula units lessons and tasks the text also empowers physical educators to help students meet the common core standards allows teachers to see the new standards and the scope and sequence for outcomes for all grade levels at a glance in a colorful easy to read format and provides administrators parents and policy makers with a framework for understanding what students should know and be able to do as a result of their physical education instruction the result is a text that teachers can confidently use in creating and enhancing high quality programs that prepare students to be physically literate and active their whole lives

Thriving as an Online K-12 Educator

2020-11-01

thriving as an online k 12 educator is the perfect all in one guide to taking your k 12 class online we know now more than ever that teachers have not been equally or systematically trained and resourced to make a sudden transition to online or blended instruction this concise accessible book collects time tested strategies and fresh perspectives from experienced educators to help you smooth out even the most abrupt shift to technology enhanced teaching and learning with these insights into institutional supports effective digital tools equitable practice social emotional considerations and beyond you will be better prepared than ever to help your students thrive in online and blended learning environments

Transitions to K–12 Education Systems

2015-12-01

with more than 140 countries currently offering or in transition to a kindergarten through grade 12 k 12 school education system this desk study explored the experiences of four countries mongolia philippines poland and turkey and one canadian province ontario in preparing and implementing k 12 systems lessons learned from the five diverse jurisdictions are i align the education system with macro policies ii view transition to k 12 as part of a package of reforms iii prioritize improving student learning iv consider teacher development as critical v avoid high stakes examinations and vi focus on higher order curriculum and assessments

Curriculum Integration K-12

2005

following the pioneering work of james beane and heidi jacobs there is growing interest in the area of integrative teaching contributors to this edited volume include k 12 principals and teachers as well as university professors recently involved in the implementation of integrative teaching

Handbook of Research on K-12 Online and Blended Learning

2014

the handbook of research on k 12 online and blended learning is an edited collection of chapters that sets out to present the current state of research in k 12 online and blended learning the beginning chapters lay the groundwork of the historical international and political landscape as well as present the scope of research methodologies used subsequent sections share a synthesis of theoretical and empirical work describing where we have been what we currently know and where we hope to go with research in the areas of learning and learners content domains teaching the role of the other and technological innovations book home page

Engineering in K-12 Education

2009-09-08

engineering education in k 12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other stem subjects science technology and mathematics specifically engineering education may improve student learning and achievement in science and mathematics increase awareness of engineering and the work of engineers boost youth interest in pursuing engineering as a career and increase the technological literacy of all students the teaching of stem subjects in u s schools must be improved in order to retain u s competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues engineering in k 12 education reviews the scope and impact of engineering education today and makes several recommendations to address curriculum policy and funding issues the book also analyzes a number of k 12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering related concepts and skills engineering in k 12 education will serve as a reference for science technology engineering and math educators policy makers employers and others concerned about the development of the country s technical

workforce the book will also prove useful to educational researchers cognitive scientists advocates for greater public understanding of engineering and those working to boost technological and scientific literacy

Handbook on Digital Learning for K-12 Schools

2016-10-07

this book guides the adoption design development and expectation of future digital teaching and learning projects programs in k12 schools it provides a series of case studies and reports experiences from international digital teaching and learning projects in k12 education the book also furnishes advice for future school policy and investment in digital teaching and learning projects finally the book provides an explanation of the future capacity and sustainability of digital teaching and learning in k12 schools

Common Standards for K-12 Education?

2008-08-26

standards based accountability has become a central feature of the public education system in each state and is a theme of national discussions about how achievement for all students can be improved and achievement gaps narrowed questions remain however about the implementation of standards and accountability systems and about whether their potential benefits have been fully realized each of the 50 states has adopted its own set of standards and though there is overlap among them there is also wide variation in the ways states have devised and implemented their systems this variety may have both advantages and disadvantages but it nevertheless raises a fundamental question is the establishment of common k 12 academic standards which states could voluntarily adopt the logical next step for standards based reform the goal of this book is not to answer the policy question of whether or not common standards would be a good idea rather the book provides an objective look at the available evidence regarding the ways in which standards are currently functioning the strategies that might be used to pursue common standards and the issues that doing so might present

Selecting Instructional Materials

1999-11-17

the national science education standards set broad content goals for teaching grades k 12 for science teaching programs to achieve these goalsâ indeed for science teaching to be most effectiveâ teachers and students need textbooks lab kits videos and other materials that are clear accurate and help students achieve the goals set by the standards selecting instructional materials provides a rigorously field tested procedure to help education decisionmakers evaluate and choose materials for the science classroom the recommended procedure is unique adaptable to local needs and realistic given the time and money limitations typical to school districts this volume includes a guide outlining the entire process for school district facilitators and provides review instruments for each step it critically reviews the current selection process for science teaching materialsâ in the 20 states where the state board of education sets forth a recommended list and in the 30 states where materials are selected entirely by local decisionmakers selecting instructional materials explores how purchasing decisions are influenced by parent attitudes political considerations and the marketing skills of those who produce and sell science teaching materials it will be indispensable to state and local education decisionmakers science program administrators and teachers and science education advocates

Reopening K-12 Schools During the COVID-19 Pandemic

2020-11-08

the covid 19 pandemic has presented unprecedented challenges to the nation s k 12 education system the rush to slow the spread of the virus led to closures of schools across the country with little time to ensure continuity of instruction or to create a framework for deciding when and how to reopen schools states districts and schools are now grappling with the complex and high stakes questions of whether to reopen school buildings and how to operate them safely if they do reopen these decisions need to be informed by the most up to date evidence about the sars cov 2 virus that causes covid

19 about the impacts of school closures on students and families and about the complexities of operating school buildings as the pandemic persists reopening k 12 schools during the covid 19 pandemic prioritizing health equity and communities provides guidance on the reopening and operation of elementary and secondary schools for the 2020 2021 school year the recommendations of this report are designed to help districts and schools successfully navigate the complex decisions around reopening school buildings keeping them open and operating them safely

Changing Expectations for the K-12 Teacher Workforce

2020-07-10

teachers play a critical role in the success of their students both academically and in regard to long term outcomes such as higher education participation and economic attainment expectations for teachers are increasing due to changing learning standards and a rapidly diversifying student population at the same time there are perceptions that the teaching workforce may be shifting toward a younger and less experienced demographic these actual and perceived changes raise important questions about the ways teacher education may need to evolve in order to ensure that educators are able to meet the needs of students and provide them with classroom experiences that will put them on the path to future success changing expectations for the k 12 teacher workforce policies preservice education professional development and the workplace explores the impact of the changing landscape of k 12 education and the potential for expansion of effective models programs and practices for teacher education this report explores factors that contribute to understanding the current teacher workforce changing expectations for teaching and learning trends and developments in the teacher labor market preservice teacher education and opportunities for learning in the workplace and in service professional development

Standards for K-12 Engineering Education?

2010-10-28

the goal of this study was to assess the value and feasibility of developing and implementing content standards for engineering education at the k 12 level content standards have been developed for three disciplines in stem education science technology and mathematic but not for engineering to date a small but growing number of k 12 students are being exposed to engineering related materials and limited but intriguing evidence suggests that engineering education can stimulate interest and improve learning in mathematics and science as well as improve understanding of engineering and technology given this background a reasonable question is whether standards would improve the quality and increase the amount of teaching and learning of engineering in k 12 education the book concludes that although it is theoretically possible to develop standards for k 12 engineering education it would be extremely difficult to ensure their usefulness and effective implementation this conclusion is supported by the following findings 1 there is relatively limited experience with k 12 engineering education in u s elementary and secondary schools 2 there is not at present a critical mass of teachers qualified to deliver engineering instruction 3 evidence regarding the impact of standards based educational reforms on student learning in other subjects such as mathematics and science is inconclusive and 4 there are significant barriers to introducing stand alone standards for an entirely new content area in a curriculum already burdened with learning goals in more established domains of study

Visible Learning for Science, Grades K-12

2018-02-15

in the best science classrooms teachers see learning through the eyes of their students and students view themselves as explorers but with so many instructional approaches to choose from inquiry laboratory project based learning discovery learning which is most effective for student success in visible learning for science the authors reveal that it s not which strategy but when and plot a vital k 12 framework for choosing the right approach at the right time depending on where students are within the three phases of learning surface deep and transfer synthesizing state of the art science instruction and assessment with over fifteen years of john hattie s cornerstone educational research this framework for maximum learning spans the range of topics in the life and physical sciences employing classroom examples from all grade levels the authors empower teachers to plan develop and implement high impact instruction for each phase

of the learning cycle surface learning when through precise approaches students explore science concepts and skills that give way to a deeper exploration of scientific inquiry deep learning when students engage with data and evidence to uncover relationships between concepts students think metacognitively and use knowledge to plan investigate and articulate generalizations about scientific connections transfer learning when students apply knowledge of scientific principles processes and relationships to novel contexts and are able to discern and innovate to solve complex problems visible learning for science opens the door to maximum impact science teaching so that students demonstrate more than a year s worth of learning for a year spent in school

Teaching English Language Learners K-12

2004-02-13

the author examines the immense demands faced by ell educators and offers specific strategies to address these special challenges

Exploring the Effectiveness of Online Education in K-12 Environments

2014-08-31

the integration of technology in classrooms is rapidly emerging as a way to provide more educational opportunities for students as virtual learning environments become more popular evaluating the impact of this technology on student success is vital exploring the effectiveness of online education in k 12 environments combines empirical evidence and best practices in current k 12 distance learning and virtual schools emphasizing current research and opportunities this book is an all inclusive reference source for administrators teachers researchers teacher educators and policymakers interested in the development and implementation of blended and electronic learning in primary and secondary education

Successful K-12 STEM Education

2011-07-22

science technology engineering and mathematics stem are cultural achievements that reflect our humanity power our economy and constitute fundamental aspects of our lives as citizens consumers parents and members of the workforce providing all students with access to quality education in the stem disciplines is important to our nation s competitiveness however it is challenging to identify the most successful schools and approaches in the stem disciplines because success is defined in many ways and can occur in many different types of schools and settings in addition it is difficult to determine whether the success of a school s students is caused by actions the school takes or simply related to the population of students in the school successful k 12 stem education defines a framework for understanding success in k 12 stem education the book focuses its analysis on the science and mathematics parts of stem and outlines criteria for identifying effective stem schools and programs because a school s success should be defined by and measured relative to its goals the book identifies three important goals that share certain elements including learning stem content and practices developing positive dispositions toward stem and preparing students to be lifelong learners a successful stem program would increase the number of students who ultimately pursue advanced degrees and careers in stem fields enhance the stem capable workforce and boost stem literacy for all students it is also critical to broaden the participation of women and minorities in stem fields successful k 12 stem education examines the vast landscape of k 12 stem education by considering different school models highlighting research on effective stem education practices and identifying some conditions that promote and limit school and student level success in stem the book also looks at where further work is needed to develop appropriate data sources the book will serve as a guide to policy makers decision makers at the school and district levels local state and federal government agencies curriculum developers educators and parent and education advocacy groups

Classroom Management

2020-05-05

enables k 12 educators to create successful learning communities the fully updated new

2023-01-05

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edition effective classroom management plans are essential for creating environments that foster appropriate social interactions and engaged learning for students in k 12 settings new and early career teachers often face difficulties addressing student discipline upholding classroom rules and procedures and establishing positive teacher student relationships the seventh edition of classroom management is the leading resource for helping educators prevent student misbehavior respond to challenging situations and involve their students in building positive classroom communities this popular textbook covers every vital aspect of classroom management from planning for the school year and conducting instruction to managing diverse classrooms and collaborating with colleagues and families fully revised to reflect recent changes in k 12 education and address the needs of today s educators this edition features new and updated methods for fostering positive student behavior insights on the root causes of misbehavior strategies for helping students set high expectations and much more written by a respected expert in teaching methods classroom management and instructional leadership this valuable teacher s reference covers contemporary topics methods and discipline models in classroom management reflects current intasc model core teaching standards and praxis assessments features descriptions of classroom management methods used by elementary middle and high school teachers in various regions and communities provides new and unique stories and case studies of real world classroom situations offers end of chapter summaries and questions supplemental activities further reading suggestions and complete references includes new tables charts and figures that make information more accessible to different types of learners classroom management creating a successful k 12 learning community seventh edition is an ideal text for college professors teachers in training and k 12 educators as well as school administrators and general readers involved in education

K-12 Classroom Teaching

2008

k 12 classroom teaching a primer for new professionals is a teaching guide written in clear reader friendly language in the primer readers explore key aspects of classroom teaching including the context of teaching today strategies for learning about students planning and assessment instruction and instructional strategies classroom management finding a personal educational stance and growing professionally each chapter is designed to cover the material thoroughly and concisely so that readers can make the best use of their time this book encourages readers to reflect on their past experiences to question their assumptions to consider multiple sources of information and to commit to enacting well defined notions of good practice that address learners diverse needs while honoring the dignity of the human experience

Optimizing K-12 Education through Online and Blended Learning

2016-07-13

the integration of information and communication technologies in education is unavoidable as an increasing percentage of educators embrace modern technology others are faced with the decision to reevaluate their own pedagogical practices or become obsolete to meet the needs of students one must first define what stipulates a successful k 12 student the best practices of online classrooms the warning signs for low performing students and how to engage web based students optimizing k 12 education through online and blended learning addresses the models support cases and delivery of k 12 online education seeking to further the conversation about the most effective ways to integrate ict into the classroom this publication presents theoretical frameworks to support educators and administrators this book is an essential collection of research for teachers administrators students of education it professionals developers and policy makers

K-12 Education: Concepts, Methodologies, Tools, and Applications

2013-09-30

primary and secondary education is a formative time for young students lessons learned before the rigors of higher education help to inform learners future successes and the increasing prevalence of learning tools and technologies can both help and hinder students in their endeavors k 12 education concepts methodologies tools and

2023-01-05

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applications investigates the latest advances in online and mobile learning as well as pedagogies and ontologies influenced by current developments in information and communication technologies enabling teachers students and administrators to make the most of their educational experience this multivolume work presents all stakeholders in k 12 education with the tools necessary to facilitate the next generation of student teacher interaction

Millennials & K-12 Schools

2008

the national research council nrc has undertaken a three phase project to explore the possibility of a program to attract science mathematics and engineering phds to careers in k 12 education the first phase of the project surveyed the interests of recent phds in science and mathematics in pursuing careers in secondary education analysis of the phase i data suggests that a significant percentage of phds might be interested in pursuing careers in secondary education under some circumstances this report from the second phase of the project presents a proposal for a national demonstration program to determine how one might prepare phds to be productive members of the k 12 education community the proposed program is designed to help meet the needs of the nation s schools while providing further career opportunities for recent phds in science mathematics and engineering

Attracting PhDs to K-12 Education

2002-09-01

the childhood obesity epidemic and related health consequences are urgent public health problems approximately one third of america s young people are overweight or obese health problems once seen overwhelmingly in adults such as type 2 diabetes cardiovascular disease and hypertension are increasingly appearing in youth though the health of americans has improved in many broad areas for decades increases in obesity could erode these and future improvements the iom report accelerating progress in obesity prevention solving the weight of the nation recognized the importance of the school environment in addressing the epidemic and recommended making schools a focal point for obesity prevention the development and implementation of k 12 nutrition benchmarks guides or standards for a discussion of these terms see the next section of this chapter would constitute a critical step in achieving this recommendation national nutrition education curriculum standards could have a variety of benefits including the following improving the consistency and effectiveness of nutrition education in schools preparing and training teachers and other education staff to help them provide effective nutrition education assisting colleges and universities in the development of courses in nutrition as part of teacher certification and in updating methods courses on how to integrate nutrition education in subject matter areas in the classroom and in materials and establishing a framework for future collaborative efforts and partnerships to improve nutrition education nutrition education in the k 12 curriculum the role of national standards is a summary of the workshop s presentations and discussions prepared from the workshop transcript and slides this summary presents recommendations made by individual speakers

Nutrition Education in the K-12 Curriculum

2013-09-21

this book explores the use of hand held mobile devices in primary and secondary classrooms to assist in learning sharing and communication among students and teachers provided by publisher

Tablets in K-12 Education: Integrated Experiences and Implications

2014-07-31

encourage a culture of innovation and creativity innovation and creativity are imperative to educational success and require the contributions of teachers students administrators and policymakers explore the four essentials for developing a creative mistake tolerant culture investigate teaching and leadership beliefs and practices that undermine creativity and discover strategies for successfully navigating challenges

that your team may face along the way

Inspiring Creativity and Innovation in K-12

2015-05-11

creating meaningful museum experiences for k-12 audiences how to connect with teachers and engage students is the first book in more than a decade to provide a comprehensive look at best practices in working with this crucial segment of museum visitors with more than 40 contributors from art history science natural history and specialty museums across the country the book asks probing questions about museum school relationships suggests new paradigms and offers creative approaches fully up to date with current issues relevant to museums work with schools including anti-racist teaching approaches and pivoting to virtual programming during the pandemic this book is essential for both established and emerging museum educators to ensure they are current on best practices in the field the book features four parts setting the stage looks at the how museums establish and finance k-12 programs and how to engage with the youngest audiences building blocks considers the core elements of successful k-12 programming including mission alignment educator recruitment and training working with teacher advisory boards and anti-racist teaching practices questions and new paradigms presents case studies in which practitioners reconsider established approaches to museums work with schools and engage in iterative processes to update and improve them from evaluating k-12 museum programs to diversifying program content to prioritizing virtual programming solutions and innovative models offers examples of programs that have been reimaged for the current landscape of museum school collaborations including practicing self-care for teachers and museum educators investing in extended school relationships over one-time visits and highlighting the stories of enslaved people who lived at historic sites

Creating Meaningful Museum Experiences for K-12 Audiences

2021-10-30

a must-read for k-12 teachers administrators trainers and anyone in a teacher training program teaching esl k-12 views from the classroom addresses how to prepare english language learners to successfully enter the structures and demands of mainstream classrooms curricula and schools the authors artfully blend insightful classroom and school-based experience with frameworks of research and policy through this interplay of voice and expertise teaching esl k-12 shows the kind of meaningful professional conversation that teachers can have as they relate their wisdom of practice to the social discourse of research and policy making book jacket

Service-learning and Community Service in K-12 Public Schools

1999

grade level 1 2 3 4 5 6 7 8 9 10 11 12 k p e i s t

Teaching ESL K-12

2001

as online learning continues to become more prominent in k-12 education it will be important that teachers are knowledgeable about both the potential of online learning and the challenges associated with moving curricula online this book written by a former secondary online teacher who now teaches online instructional methods to practicing k-12 teachers addresses those challenges and offers practical research-based approaches to creating successful online learning experiences both novice and experienced k-12 teachers will benefit from the author's strategies for creating engaging learner-centered instruction in an online format this book is unique from other practitioner-oriented books on online learning in that it focuses exclusively on adolescents' experiences with online instruction

Problems as Possibilities

1998

the first handbook to explore the field of teaching english to speakers of other languages in elementary and secondary education k 12 the number of students being educated in english has grown significantly in modern times globalization immigration and evolving educational policies have prompted an increased need for english language learner ell education the handbook of tesol in k 12 combines contemporary research and current practices to provide a comprehensive overview of the origins evolution and future direction of teaching english to speakers of other languages at the elementary and secondary levels k 12 exploring the latest disciplinary and interdisciplinary issues in the field this is a first of its kind handbook and contributions are offered from a team of internationally renowned scholars comprehensive in scope this essential handbook covers topics ranging from bilingual language development and technology enhanced language learning to esol preparation methods for specialist and mainstream teachers and school administrators three sections organize the content to cover key issues in teaching esol students in k 12 pedagogical issues and practices in tesol in k 12 education and school personnel preparation for tesol in k 12 satisfies a need for inclusive and in depth research on tesol in k 12 classrooms presents a timely and interesting selection of topics that are highly relevant to working teachers and support staff applies state of the art research to real world tesol classroom settings offers a balanced assessment of diverse theoretical foundations concepts and findings the handbook of tesol in k 12 is an indispensable resource for undergraduate and graduate students researchers and scholars and educators in the field of teaching english to speakers of other languages in elementary and secondary education

Online Learning

2013-08-22

it has quickly become apparent in the past year that online learning is not only an asset but it is critical to the continued education of youth during times of crisis however districts and schools across the nation are in need of guidance and practical research backed approaches to distance and hybrid learning the current covid 19 crisis has demonstrated that effective learning in k 12 is possible but many districts struggled and continue to struggle in achieving that reality there is also the growing consensus that even if things return to normal distance and blended learning strategies should continue to be employed in many ways across the k 12 environment designing effective distance and blended learning environments in k 12 provides key insights into the ways that school districts and educators from across the world have effectively designed and implemented distance and blended learning approaches to enable and enhance student learning the diverse collection of authors from various demographics and roles in school systems will benefit readers across a wide spectrum of school community stakeholders there will also be an emphasis on how research and theory is put into practice along with an honest discussion of what strategies and actions were successful as well as those that were less so this book is essential for professionals and researchers working in the field of k 12 education particularly superintendents curriculum developers professional learning designers school principals instructional technology specialists and teachers as well as administrators researchers academicians and students interested in the effective practices being used in blended learning approaches

The Handbook of TESOL in K-12

2019-04-13

provides an overview of effective online teaching and learning practices

Designing Effective Distance and Blended Learning Environments in K-12

2021-11-12

following a 2011 report by the national research council nrc on successful k 12 education in science technology engineering and mathematics stem congress asked the national science foundation to identify methods for tracking progress toward the report s recommendations in response the nrc convened the committee on an evaluation framework for successful k 12 stem education to take on this assignment the committee developed 14 indicators linked to the 2011 report s recommendations by providing a focused set of key indicators related to students access to quality learning educator s capacity and policy and funding initiatives in stem the committee addresses the need for research

and data that can be used to monitor progress in k 12 stem education and make informed decisions about improving it the recommended indicators provide a framework for congress and relevant deferral agencies to create and implement a national level monitoring and reporting system that assesses progress toward key improvements recommended by a previous national research council 2011 committee measures student knowledge interest and participation in the stem disciplines and stem related activities tracks financial human capital and material investments in k 12 stem education at the federal state and local levels provides information about the capabilities of the stem education workforce including teachers and principals and facilitates strategic planning for federal investments in stem education and workforce development when used with labor force projections all 14 indicators explained in this report are intended to form the core of this system monitoring progress toward successful k 12 stem education a nation advancing summarizes the 14 indicators and tracks progress towards the initial report s recommendations

What Works in K-12 Online Learning

2007

engineering education is emerging as an important component of us k 12 education across the country students in classrooms and after and out of school programs are participating in hands on problem focused learning activities using the engineering design process these experiences can be engaging support learning in other areas such as science and mathematics and provide a window into the important role of engineering in society as the landscape of k 12 engineering education continues to grow and evolve educators administrators and policy makers should consider the capacity of the us education system to meet current and anticipated needs for k 12 teachers of engineering building capacity for teaching engineering in k 12 education reviews existing curricula and programs as well as related research to understand current and anticipated future needs for engineering literate k 12 educators in the united states and determine how these needs might be addressed key topics in this report include the preparation of k 12 engineering educators professional pathways for k 12 engineering educators and the role of higher education in preparing engineering educators this report proposes steps that stakeholders including professional development providers postsecondary preservice education programs postsecondary engineering and engineering technology programs formal and informal educator credentialing organizations and the education and learning sciences research communities might take to increase the number skill level and confidence of k 12 teachers of engineering in the united states

Monitoring Progress Toward Successful K-12 STEM Education

2013-04-08

we live in a global community and to be a full member of this community often requires speaking more than one language educators and policymakers must ask themselves what does it mean to view language learning not as an elective but as a necessity for communicating and interacting with people around the world the essentials of world languages grades k 12 answers this question and many more as it shows us why world languages must be positioned as an essential part of a balanced curriculum and why the time is right for implementing change when language instruction should begin and how language instruction should be delivered and assessed how to redefine the role of the teacher and curriculum coordinator in language learning how to set realistic expectations for students second language proficiency how to design curriculum using assessment targets packed with information about major trends and issues in world language education this book offers valuable curriculum resources to help educators design and implement flexible language programs that prepare children to live and work in an interconnected global culture

Building Capacity for Teaching Engineering in K-12 Education

2020-04-13

american democracy is at a critical crossroads rancor division and suspicion are the unfortunate byproducts of the contentious 2016 presidential election the election also bred a measure of civic uncertainty where citizens of all ages struggle to find and define their roles within a functioning democracy no reluctant citizens teaching civics in k 12 classrooms is designed to help social studies teachers reinforce the centrality

of civic education through a series of hands on participatory and empowering activities from civic literacy to human rights from service learning to controversial issues no reluctant citizens teaching civics in k 12 classrooms explores an array of topics that ultimately provides k 12 students the conceptual and practical tools to become civically engaged

The Essentials of World Languages, Grades K-12

2007-09-15

social justice is a philosophy that has gathered momentum over the past few years to bring to light the inequities that exist within our society in the field of education social justice illuminates the challenges that marginalized students and minority students face compared to other students social justice and culturally affirming education in k 12 settings seeks to bring together social scientists researchers and other practitioners to delve into social justice issues in k 12 settings and considers the various challenges and future directions that are associated with this field covering key topics such as inclusive education educational reform and school policies this reference work is ideal for administrators policymakers researchers academicians practitioners scholars instructors and students

No Reluctant Citizens

2018-06-01

Social Justice and Culturally-Affirming Education in K-12 Settings

2023-01-27

K-12 Science and Math Education Across the Federal Agencies

2006

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