

ACCESS TO STEM: A FRAMEWORK

CREATING SPACE FOR ALL LEARNERS



stemOnext
OPPORTUNITY FUND

Strategies are the broad categories within each large concept: Increasing Access, Youth-Centric, and Skill Development. Tactics are the specific actions and tools for each strategy.



INCREASING ACCESS

Strategies that address barriers to participation and build on the experiences within the community.



YOUTH-CENTRIC

Strategies that build on the specific strengths, needs, and challenges of youth.



SKILL DEVELOPMENT

Strategies that are personally relevant to youth and enable them to develop STEM and 21st century skills.

Strategies	Tactics
Community Engagement	• Create plans for internal and external communication and outreach • Build cross-sector partnerships to cultivate a STEM learning ecosystem • Offer community and family engagement opportunities
Data Informed Decision Making	• Identify ways to collect youth and program level data to improve program results • Collect feedback from youth and families • Conduct evaluation to assess broader community needs
Program Design (quality and inclusivity)	• Involve stakeholders who represent the community and offer diverse perspectives in program design • Prioritize an explicitly biased with key stakeholders to provide ongoing guidance and feedback • Be intentional in program designs to engage and effectively serve all youth
Program Operations	• Ensure all youth have access to programming location, schedule, transportation, technology • Ensure all youth feel welcomed, directed, outreach to diverse populations, recruiting designed to engage all youth, welcoming environment • Recruit and retain staff who are representative of the community

Strategies	Tactics
Peer Support	• Provide a supportive environment for all youth • Encourage positive peer connections • Help all youth feel they are part of a STEM community
Positive Youth Development	• Support all youth to make personal connections to and a greater sense of belonging in STEM • Help all youth develop self-efficacy and confidence in STEM • Develop all youth voice and choice
Relevance	• Connect programming to school, home, and other settings • Leverage all youth interests, knowledge, and lived experiences • Show how STEM can make a difference in youth's lives and in their communities
Supportive Relationships	• Make community and family connections • Provide opportunities to interact with and learn from diverse STEM role models • Recruit and retain staff skilled in developing and supporting positive relationships

Strategies	Tactics
Connected Pathways	• Provide opportunities to learn about and explore a variety of STEM careers • Create partnerships with other STEM programs to encourage further participation • Provide exposure to relatively STEM role models who have experienced diverse career pathways
Curriculum	• Foster engineering mindset practices applying math and computer science • Create a learning environment that offers voice and choice to engage all youth in STEM • Provide opportunities for all youth to do authentic practices that STEM professionals do
Professional Development (for the field)	• Provide opportunities for education to reflect on their own lived experience • Provide training for education to make STEM personally relevant to all youth • Engage education or K-12 professional development offerings role models, engineering mindset, growth mindset, etc.)
21st Century Skills	• Provide opportunities to collaborate and develop collaboration skills • Ask open ended questions to help youth critically think and deepen their understanding • Facilitate development of a growth mindset

Stem For Kids Framework

**Leonard Barolli, Aneta Poniszewska-
Maranda, Tomoya Enokido**



Stem For Kids Framework:

50 Strategies for Teaching STEAM Skills Kara Ball,2024-02-13 Give students concrete opportunities to practice STEAM skills This teacher resource includes easy to use classroom strategies and activities for science technology engineering art and mathematics This teacher book provides 50 strategies to support STEAM instruction and build 21st century skills such as collaboration handling failure problem solving communication and creativity With ten strategies per essential STEAM skill this book provides educators with tools to build skills These activities utilize accessible everyday materials which makes them perfect for any classroom setting The book also includes student activity pages instruction sheets and ideas for variation at every grade level From building knowledge of STEAM concepts to strengthening lifelong learning skills this book offers PreK 12 teachers the support they need to help students thrive **Strategies That Work** Stephanie Harvey,Anne Goudvis,2023-10-10 Since the first publication of Strategies That Work numerous new books on reading comprehension have been published and more educators than ever are teaching comprehension In this third edition of their groundbreaking book authors Stephanie Harvey and Anne Goudvis bring you Strategies That Work Teaching Comprehension for Understanding Engagement and Building Knowledge This new edition is organized around three section Part I Starting with the Foundation of Meaning these chapters provide readers with a solid introduction to reading comprehension instruction including principles that guide practice suggestions for text selection and a review of recent research Part II Part II contains lessons to put these principles into practices for all areas of reading comprehension Part III This section shows you how to integrate comprehension instruction across the curriculum and the school day with a focus on science and social studies In addition this new version includes updated bibliographies including the popular Great Books for Teaching Content online resources and fully revised chapters focusing on digital reading strategies for integrating comprehension and technology and comprehension across the curriculum Harvey and Goudvis tackle close reading close listening text complexity and critical thinking and demonstrate how your students can build knowledge through thinking intensive reading and learning This third edition is a must have resource for a generation of new teachers and a welcome refresher for those with dog eared copies of this timeless guide to reading comprehension **Educating Our Children to Succeed in the Global Economy** United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2014

Early Engineering Learning Lyn English,Tamara Moore,2018-05-29 This book addresses engineering learning in early childhood spanning ages 3 to 8 years It explores why engineering experiences are important in young children s overall development and how engineering is a core component of early STEM learning including how engineering education links and supports children s existing experiences in science mathematics and design and technology both before school and in the early school years Promoting STEM education across the school years is a key goal of many nations with the realization that building STEM skills required by societies takes time and needs to begin as early as possible Despite calls from national and

international organisations the inclusion of engineering based learning within elementary and primary school programs remains limited in many countries Engineering experiences for young children in the pre school or early school years has received almost no attention even though young children can be considered natural engineers This book addresses this void by exposing what we know about engineering for young learners including their capabilities for solving engineering based problems and the few existing programs that are capitalising on their potential

CTE-STEM 2022 conference proceedings Marcus Specht,Xiaoling Zhang,Christian Glahn,Nardie Fanchamps,2022-08-15 The 6th APSCE International Conference on Computational Thinking and STEM Education 2022 CTE STEM 2022 is organized by the Asia Pacific Society for Computers in Education APSCE and hosted by the Leiden Delft Erasmus Centre for Education and Learning LDE CEL CTE STEM 2022 is hosted for the first time in Europe by the Delft University of Technology TU Delft Delft the Netherlands This conference continues from the success of the previous four international Computational Thinking conferences organized by the National Institute of Education and Nanyang Technological University NIE NTU This conference invites CT as well as STEM researchers and practitioners to share their findings processes and outcomes in the context of computing education or computational thinking

Using Assistive Technology for Inclusive Learning in K-12 Classrooms Bell, Jeremy,Gifford, Timothy,2023-08-25 It is imperative in today s educational environment that educators are prepared to utilize assistive technology to support all learners and provide them with the best education possible In order to ensure assistive technology is used appropriately further study on the best practices strategies and tactics of implementation is required Using Assistive Technology for Inclusive Learning in K 12 Classrooms highlights the need and use of assistive technology in special education and provides pre service teachers in regular and special education programs with research based methods and materials to promote a more inclusive environment for students with disabilities Covering key topics such as educational technology special needs and teaching methods this premier reference source is ideal for industry professionals policymakers administrators of both K 12 and higher education researchers scholars academicians pre service teachers teacher educators instructional designers practitioners instructors and students

Complex, Intelligent and Software Intensive Systems Leonard Barolli,Aneta Poniszewska-Maranda,Tomoya Enokido,2020-06-10 This book explores three interwoven and challenging areas of research and development for future ICT enabled applications software intensive systems complex systems and intelligent systems Software intensive systems are systems that extensively interact with other systems sensors actuators devices and users More and more domains are now employing software intensive systems e g the automotive sector telecommunication systems embedded systems in general industrial automation systems and business applications Moreover the outcome of web services offers a new platform for enabling software intensive systems Complex systems research is focused on the overall understanding of systems rather than their components Complex systems are very much characterized by the changing environments in which they operate through their multiple internal and external interactions They evolve

and adapt through internal and external dynamic interactions The development of intelligent systems and agents which is increasingly characterized by the use of ontologies can be beneficial for software intensive systems and complex systems alike Accordingly recent research in the areas of intelligent systems robotics neuroscience artificial intelligence and the cognitive sciences is essential to the future development of software intensive and complex systems

Investigating Ramps & Pathways with Young Children (Ages 3-8) Beth Dykstra Van Meeteren, 2022-12-23 Children are intrigued by moving objects even more so when they can engineer the movement This volume in the STEM for Our Youngest Learners Series uses Ramps and Pathways as a context to provide children ages 3-8 with opportunities to engage in STEM every day Ramps and Pathways is a meaningful and fun way for children to develop engineering habits of mind as they explore concepts in force and motion properties of objects and how an object's properties affect its movement In the process children develop spatial thinking that is essential for future careers in STEM The text also offers guidance for arranging the physical intellectual social emotional and promotional environments of a classroom to embrace the natural integration of literacy learning Each volume in this series includes guidance for forming partnerships with families and administrators that support STEM learning vignettes showing educators and children engaging in inquiry learning tips for selecting materials modifications and accommodations for diverse learners ways to establish adult learning communities that support professional development and more

Book Features Alignment with both the Head Start Early Learning Outcomes Framework ELOF and the NGSS Science and Engineering Practices with specific descriptions of how those science and engineering practices in Ramps and Pathways look and feel in Pre-K-2 classrooms Examples of how to integrate literacy learning in a meaningful way Descriptions of how the open-ended nature of ramps and pathways aligns with the Universal Design for Learning Framework UDL Guidance to help teachers anticipate and plan for all children to become purposeful motivated resourceful knowledgeable strategic and goal directed about learning Examples of how to stage introduce and support children's designs to develop engineering habits of mind systems thinking optimism creativity communication collaboration attention to ethical considerations A meaningful and healthy context to grow children's executive function skills EFs including inhibitory control working memory and cognitive flexibility

Technologies for Children Marilyn Fleer, 2023-07-10 Technologies for Children is a comprehensive guide to teaching design and digital technologies to children from birth to 12 years Aligned with the Early Years Learning Framework and the Australian Curriculum Technologies this book provides practical ideas for teaching infants toddlers pre-schoolers and primary aged children The third edition includes expanded content on teaching digital technologies with a new chapter on computational thinking Key topics covered include food and fibre production engineering principles and systems and computational thinking The content goes beyond discussing the curriculum to consider technology pedagogies planning assessment and evaluation Case studies drawn from Australian primary classrooms and early childhood centres demonstrate the transition from theory to practice Each chapter is supported by pedagogical reflections research activities and spotlights

as well as extensive online student resources Written by Marilyn Flee this book presents innovative engaging and student centred approaches to integrating technologies in the classroom

Investigating Light and Shadow With Young

Children (Ages 3-8) Beth Dykstra Van Meeteren,2022 Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground Many fields in STEM draw upon understanding of light and shadow such as astronomy biology engineering architecture and more This second volume in the STEM for Our Youngest Learners Series shows teachers how to engage children ages 3 8 with light and shadow in a playful way building an early foundation for the later more complex study of this phenomena and possibly piquing the curiosity of children that will ultimately lead to professions within the field of STEM The text offers guidance for integrating literacy learning and investigations and for building partnerships with administrators Each volume in this new series includes vignettes showing educators and children engaging in inquiry learning guidance for selecting materials and arranging the learning environment modifications and accommodations for diverse learners establishing adult learning communities to support professional development and more

Models of Teaching Bruce Joyce,Emily Calhoun,2024-08-02

This fully updated edition of a classic text explores established approaches to teaching that are grounded in research and experience to ensure high levels of learning *Models of Teaching* combines rationale and research with real life examples and applications in the classroom showing how teachers professional learning communities and school faculties can improve student attainment The volume contains the major psychological and philosophical approaches to teaching and schooling including thoroughly documented research on the models of teaching and their effects on student success and offers teachers the tools to accelerate student learning Features include three completely new chapters covering the origins of models in teaching explicit strategy instruction and metacognition for teaching reading comprehension and best practices for teachers coaching other teachers expanding instruction and supporting school renewal scenarios for each model to explore the concepts in action discussions of research relevant to each model throughout the text advice from the authors about the use of the models in teaching support for incorporating the language arts and science standards and supporting STEM instruction With the aim of providing a strong impact on student achievement while keeping in line with the current emphasis on standards based education this classic resource will be essential reading for pre service and new teachers as well as current teaching professionals This text is supported by extensive multimedia materials including video demonstrations of the models in action PowerPoint slides and an Instructor s Manual available at www.modelsofteaching.org

[Handbook of Research on Tools for Teaching Computational Thinking in P-12 Education](#) Kalogiannakis,

Michail,Papadakis, Stamatios,2020-06-26 While the growth of computational thinking has brought new awareness to the importance of computing education it has also created new challenges Many educational initiatives focus solely on the programming aspects such as variables loops conditionals parallelism operators and data handling divorcing computing from

real world contexts and applications This decontextualization threatens to make learners believe that they do not need to learn computing as they cannot envision a future in which they will need to use it just as many see math and physics education as unnecessary The Handbook of Research on Tools for Teaching Computational Thinking in P 12 Education is a cutting edge research publication that examines the implementation of computational thinking into school curriculum in order to develop creative problem solving skills and to build a computational identity which will allow for future STEM growth Moreover the book advocates for a new approach to computing education that argues that while learning about computing young people should also have opportunities to create with computing which will have a direct impact on their lives and their communities Featuring a wide range of topics such as assessment digital teaching and educational robotics this book is ideal for academicians instructional designers teachers education professionals administrators researchers and students

Distance Learning Michael Simonson, 2024-09-01 Distance Learning is for leaders practitioners and decision makers in the fields of distance learning elearning telecommunications and related areas It is a professional journal with applicable information for those involved with providing instruction to all kinds of learners of all ages using telecommunications technologies of all types Stories are written by practitioners for practitioners with the intent of providing usable information and ideas Articles are accepted from authors new and experienced with interesting and important information about the effective practice of distance teaching and learning Distance Learning is published quarterly Each issue includes eight to ten articles and three to four columns including the highly regarded And Finally column covering recent important issues in the field and written by Distance Learning editor Michael Simonson Articles are written by practitioners from various countries and locations nationally and internationally

Locating Technology Education in STEM Teaching and Learning Wendy Fox-Turnbull, P. John Williams, 2024-05-23 This book offers clarity and consistency of thinking in relation to Technology Education when situated within a STEM approach to teaching It examines the range of Innovations and Issues which are being considered by schools as they implement STEM with particular focus on the place of Technology or the T in STEM The book is divided into three sections Philosophy Implementation and Issues and Innovations with each containing five to seven chapters The first section lays the foundations for the remainder of the book it focuses the readers on the technology aspect of STEM education and situates it to align with the international understanding of technology education The second section provides insights into how STEM is best implemented to give technology due consideration across a range of disciplines with technology education including engineering food technology and textile technology This section also provides suggestions for the successful implementation of the STEM approach and offers further insight through a range of case studies The third section outlines and discusses a range of issues that pose a threat to the position and understanding of technology within the STEM teaching and learning approach This section also examines how technology and STEM are situated within are supported or are threatened by other current innovations and approaches to teaching an

integrated curriculum such as the Maker Space Movement and Play based Learning

Teaching Computational

Thinking and Coding to Young Children Bers, Marina, 2021-06-25 Computational thinking is a lifelong skill important for succeeding in careers and life Students especially need to acquire this skill while in school as it can assist with solving a number of complex problems that arise later in life Therefore the importance of teaching computational thinking and coding in early education is paramount for fostering problem solving and creativity Teaching Computational Thinking and Coding to Young Children discusses the importance of teaching computational thinking and coding in early education The book focuses on interdisciplinary connections between computational thinking and other areas of study assessment methods for computational thinking and different contexts in which computational thinking plays out Covering topics such as programming computational thinking assessment computational expression and coding this book is essential for elementary and middle school teachers early childhood educators administrators instructional designers curricula developers educational software developers researchers educators academicians and students in computer science education computational thinking and early childhood education

Mobile Learning Applications in Early Childhood Education

Papadakis, Stamatios, Kalogiannakis, Michail, 2019-11-29 Mobile technologies combined with an interdisciplinary approach to knowledge and organization of learning experiences that are meaningful to children could create a creative and interactive learning environment different from that of traditional teaching Making good use of mobile learning with appropriate devices will increase the learning motivations of the students and help them bring about positive performance Mobile Learning Applications in Early Childhood Education is a collection of innovative research on the methods and applications of mobile learning techniques and strategies within diversified teaching settings While highlighting topics including computational thinking ubiquitous learning and social development this book is ideally designed for researchers teachers parents curriculum developers instructional designers academicians students and practitioners seeking current research on the application of mobile technology within child education

Engaging Young Engineers Angela Stone-MacDonald, 2015-06

This title provides instruction on how to teach problem solving and critical thinking to young children birth to 5 using engineering science and routines as a framework The engineering process is an ideal framework for designing learning experiences that support science technology engineering and mathematics STEM learning and cognitive development for young children Young children problem solve in their daily play and teachers and caregivers can promote the development of problem solving and critical thinking skills through intentional activities that support young children's brain development and prepare them for kindergarten Key activities are outlined for each age group with information on how each activity teaches young children to be curious persistent flexible reflective and collaborative This title also provides specific guidance for supporting problem solving and science learning in inclusive classrooms using the universal design for learning UDL model and it helps teachers to prepare children to work towards the Common Core State Standards CCSS for kindergarten math

and the Next Generation Science Standards NGSS for kindergarten science This title can serve as a supplemental text for early childhood curriculum or instructional methods courses

Research Anthology on Early Childhood Development and School Transition in the Digital Era Management Association, Information Resources,2022-12-12 In today s digital world it is critical to ensure technology is utilized appropriately and best practices for adoption are continuously updated particularly when it comes to education New technologies provide myriad opportunities for improvement within early childhood development however further study is required to fully understand the different tactics and strategies The Research Anthology on Early Childhood Development and School Transition in the Digital Era considers how technology can assist with the development of young children and identifies different technologies that should be utilized within education for the benefit of students Covering key topics such as instructional design learning literacy and technology this major reference work is ideal for administrators principals researchers scholars practitioners academicians instructors and students

Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis, Stamatios,Kalogiannakis, Michail,2020-12-05 Over the last few years increasing attention has been focused on the development of children s acquisition of 21st century skills and digital competences Consequently many education scholars have argued that teaching technology to young children is vital in keeping up with 21st century employment patterns Technologies such as those that involve robotics or coding apps come at a time when the demand for computing jobs around the globe is at an all time high while its supply is at an all time low There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking algorithmic thinking and project management Additionally recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps The book argues that while learning about computing young people should also have opportunities to create with computing which have a direct impact on their lives and their communities It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action 1 computational identity which shows the importance of young people s development of scientific identity for future STEM growth and 2 digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways Covering subthemes including student competency and assessment programming education and teacher and mentor development this book is ideal for teachers instructional designers educational technology developers school administrators academicians researchers and students

Built for More Byron Sanders,Shannon Epner,2024-06-01 Built for More The Role of OST in Preparing Youth for the Future of Work will highlight OST research and illustrative practices and bring forward multi disciplinary

perspectives about future trends innovations and the impact of OST on the future workforce The focus is on OST programs as well as related activities that contribute to employability such as summer work internships apprenticeships disability inclusion career focused mentoring and more The book will also lift up voices traditionally left out of the OST conversation including BIPOC rural and other marginalized communities Given that the world of work is rapidly evolving what are the most important ways we should be framing education and youth development work Define forces and illuminate the trends reshaping the necessary skills that youth will need to thrive professionally personally and to positively impact their communities What are the skills that employers are saying are most valuable due to transformation from automation machine learning and the 4th industrial age we are experiencing globally What are key demographic shifts that add urgency to the imperative for change in our human development ecosystems

ENDORSEMENTS

Built for More The Role of Out of School Time in Preparing Youth for the Future of Work is a compelling insightful must read about the current and future trends on out of school time This book is loaded with fascinating detail and interdisciplinary perspectives that highlight the impact of OST on teaching and learning workforce development and creating global citizens for a diverse society This book makes a persuasive argument that is difficult to refute and should be required reading for anyone interested in the future of young people in the United States Joshua Childs University of Texas at Austin As a youth empowerment leader committed to breaking systemic barriers and fostering transformative change

Built for More The Role of OST in Preparing Youth for the Future of Work is an important resource This book highlights the key institutional shifts needed to cultivate youth agency within our rapidly evolving educational professional and technological landscape Its focus on the impact of out of school time OST programs and critical pathways such as internships apprenticeships and career focused mentoring offers important insights to bridge the gap between education and employment Its emphasis on elevating BIPOC and rural voices sets it apart offering a truly inclusive approach to reducing barriers and shaping innovative interventions that authentically resonate with and empower our youth Hollie Neal Morgan Fossil Foundation The coming decades will be some of the most challenging in history while also being the most opportunity rich Questions of intelligence belonging and humanity ripple through everyday dialog and innovation and adaptable learner centered programs are rising to the occasion to meet our young people with voice agency and relationship

Built for More The Role of Out of School Time in Preparing Youth for the Future of Work is a critical compilation of OST stories paints a portrait of nimble learner centered environments that prioritize agency and relationships These stories spotlight crucial programs and education ecosystems from respected voices Tom Vander Ark Getting Smart

Fuel your quest for knowledge with Learn from is thought-provoking masterpiece, Dive into the World of **Stem For Kids Framework** . This educational ebook, conveniently sized in PDF (Download in PDF: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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Stem For Kids Framework Introduction

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