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.

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 quality • Collect feedback from youth and families • Conduct evaluation to assess broader community needs
Program Design (quality and intentionality)	• Involve stakeholders who represent the community and offer diverse perspectives in program design • Form an advisory board with key stakeholders to provide ongoing guidance and feedback • Be intentional in program design to engage and effectively serve all youth
Program Operations	• Ensure all youth have access to programming (location, schedule, transportation, technology) • Ensure all youth feel welcome (broad outreach to diverse populations, marketing designed to engage all youth, welcoming environment) • Recruit and retain staff who are representative of the community

YOUTH-CENTRIC

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

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 • Elevate 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

SKILL DEVELOPMENT

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

Strategies	Tactics
Connected Pathways	• Provide opportunities to learn about and explore a variety of STEM careers • Cultivate partnerships with other STEM programs to encourage further participation • Provide exposure to relatable 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 educators to reflect on their own lived experience • Provide training for educators to make STEM personally relevant to all youth • Engage educators in STEM 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

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NGCP

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Educating Our Children to Succeed in the Global Economy United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2014 **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 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 Success Strategies for Parenting Gifted Kids Kathleen Nilles,Jennifer L. Jolly,Tracy Ford Inman,Joan Franklin Smutny,2021-09-23 When parents need guidance on raising gifted kids they can turn to Success Strategies for Parenting Gifted Kids Expert Advice From the National Association for Gifted Children This collection of practical dynamic articles from NAGC s Parenting for High Potential magazine Word Study for Literacy Leaders Anne C. Ittner,Amy Frederick,Darl Kiernan,Donald R. Bear,2023-08-22 Word study is an approach to teaching phonics vocabulary and spelling that is based on a developmental model described by Henderson and his students Given the reciprocal nature between reading and writing phonics spelling and vocabulary are integrated in instruction Teachers understand that this word study approach integrates phonics spelling and vocabulary and have challenged us to share concrete examples of how teachers organize and implement word study and how literacy educators in universities and school districts conduct professional learning for word study The

primary goal then is to make word study work for our students The authors of each chapter show how literacy leaders and teacher educators guide others in a wide variety of educational settings Stories in this volume capture classroom conversations describe professional learning communities and present coaching scenarios that will resonate with reader s experiences **STEM Learning with Young Children** Shelly Counsell,Lawrence Escalada,Rosemary Geiken,Melissa Sander,Jill Uhlenberg,Beth Van Meeteren,Sonia Yoshizawa,Betty Zan,2016 This teacher s guide provides the background information STEM concepts and strategies needed to successfully implement an early STEM curriculum Ramps and Pathways with young children ages 3 8 R P actively engages young children in designing and building ramp structures using wooden cove molding releasing marbles on the structures and observing what happens Children use logical mathematical thinking and problem solving skills as they explore science concepts related to motion force and energy This guide helps teachers to Structure and organize an engaging STEM learning environment Understand and promote logical mathematical and scientific thinking during investigations Promote social settings that enhance communication cooperation and collaboration Make the necessary accommodations and modifications for diverse learners Integrate STEM concepts and skills with other content areas Align teaching and learning with Next Generation Science Standards NGSS and Common Core State Standards CCSS Assess STEM learning using formative and summative assessments Establish adult learning communities to support ongoing professional development Help children develop habits and behaviors that contribute to positive attitudes toward STEM This one of a kind resource uses a newly created Inquiry Teaching Model ITM as the conceptual framework and devotes specific attention to the importance of an inclusive and social STEM learning environment in which children are free to collaborate take risks and investigate within the context of exploratory and constructive play **Frameworks for the Formation of Curriculum Practice in K-12 Evangelical Schools** Karen Lynn Miller Estep,2001 *Occupational Therapy for Children* Jane Case-Smith,2005 Incorporating the newly adopted OT Practice Framework this market leading text takes an evidence based look at children at various ages and stages in development comprehensively addressing both conditions and treatment techniques in all settings Users will discover new author contributions new research and theories new techniques and current trends to keep them in step with the changes in pediatric OT practice Case studies incorporate clinical reasoning and evidence based structure Key terms chapter objectives and study questions identify important information Information on conditions technology practice models and practice arenas Describes practice in both medical and educational settings to expose readers to a variety a practice situations Updated language and terminology in accordance with the 2002 OT Practice Framework International Classification of Functioning Disability and Health ICF codes are integrated throughout More evidence based content such as clinical trials and outcome studies with regard to evaluation and intervention more accurately reflects OT as it is currently taught and practiced New authors provide a fresh approach to play social skills interventions visual and auditory disorders and hospital services Over 150 new illustrations and improved

text concepts Internet resources provide the reader with new information sources Full STEAM Ahead Cherie P. Pandora,Kathy Fredrick,2017-10-03 This book is a toolkit for youth and young adult librarians school and public who wish to incorporate science technology engineering art and math STEAM into their programs and collections but aren t sure where to begin Most educators are well aware of the reasons for emphasizing STEAM topics that fall within the broad headings of science technology engineering arts and mathematics in the curriculum regardless of grade level But how do librarians who work with tweens in middle school high school and public libraries fit into the picture and play their roles to underscore their relevance in making STEAM initiatives successful This book answers those key questions providing program guidelines and resources for each of the STEAM areas Readers will learn how to collaborate in STEAM efforts by providing information on resources activities standards conferences museums programs and professional organizations Emphasis is placed on encouraging girls and minorities to take part in and get excited about STEAM In addition the book examines how makerspaces can enhance this initiative how to connect your programs to educational standards where to find funding how to effectively promote your resources and programs including how school and public librarians can collaborate to maximize their efforts how to find and provide professional development and how to evaluate your program to make further improvements and boost effectiveness Whether you are on the cusp of launching a STEAM initiative or looking for ways to grow and enhance your program this book will be an invaluable resource Issues in Science and Technology ,2011 Stem Kids Journal: Book to Record Your Inventions, Big Ideas Or Stem Challenges! Sumita Mukherjee,2019-04 Inspire and encourage your child to design the future with the STEM Kids Journal This book includes an Engineering Design Process poster and the prompts Ask Imagine Plan Create Experiment Improve It takes kids through each of these steps with questions and places to sketch At the end of each section they will have a fully developed idea Perfect for project notes sketches ideas data and research notes With an emphasis on STEM education continuing to grow all over the world this journal prepares kids to stay ahead of the curve It will have them thinking like engineers with STEM focused content appropriate for all levels of learning With the Engineering Design Process incorporated into every challenge kids will practice and develop their problem solving and design skills so that they can learn to overcome any obstacle The structure in this guide provides an excellent framework for teachers who might not feel versed in all areas of STEM It has a designated space for recording daily ideas inventions and STEM challenges A journal kids will enjoy *Handbook of child psychology* William Damon,K. Ann Renninger,Richard M. Lerner,Irving E. Sigel,2006 This book is part of a 4 volume set that reflects current understanding of child psychology Focusing on the concerns of a new century and now in its 6th edition the series is the definitive child psychologist s guide and reference work *Creativity and the Arts with Young Children* Rebecca T. Isbell,Shirley C. Raines,2007 Creativity and the Arts with Young Children 2e is written specifically for early childhood educators as well as professionals who work with children birth through age eight The focus of this book now in it s second

edition is on making the vital connection to music movement drama and the visual arts in all areas of the classroom as well as developing creative teachers and professionals who will be able to foster an artistic environment The book includes observations and pictures of teachers and children that demonstrate practical ways the arts can be used to help children reach their potential There are expanded sections on multi intelligences Reggio Emilia divergent questioning and art recipes and the book also includes literacy connections and activities for adults at the end of each chapter There are many ideas in the book for open ended activities that are important for the development of young children and will encourage them to think in new ways The standards and recommendations from professional organizations are addressed so that the reader can recognize what goals these organizations believe are important in the early years Thorough in its coverage the text speaks to children with special needs and cultural diversity leaving the reader with the most complete information regarding arts in the young child s learning environment *Educating Gifted Students in Middle School* Susan Rakow,2021-09-30 Educating Gifted Students in Middle School A Practical Guide 3rd ed helps educators with the challenging task of understanding and meeting the needs of gifted students in middle school This revised and updated third edition Provides a rationale and framework that middle schools can use to fill the service gap for gifted and advanced learners Addresses the needs of learners from diverse backgrounds Shows how to implement effective program models Identifies best practices for the classroom Shares research based curriculum models Topics addressed include school organization instructional strategies in the basic subject areas cocurricular and summer programs the missing link of executive function skills and counseling at risk gifted learners Educating Gifted Students in Middle School focuses on creative practical and realistic school solutions that create a vital and responsive community for all students **Parenting Children with Learning Disabilities** Jane Utley Adelizzi,Diane B. Goss,2001-04-30 In a straightforward and empathetic tone Adelizzi and Goss sensitively offer support to parents of children with learning disabilities who wish to see their children grow to their full potential While juggling the complex expectations imposed upon them parents often combat confusion anger fear sadness and frustration This book will help diffuse these overwhelming feelings empowering parents with the ability to provide the academic and personal support their children need to thrive Adelizzi and Goss who contribute to a unique and highly successful collegiate program for adults with LD ADD demystify the very fuzzy world of LD terminology and theory and clarify the complicated process of diagnosis and treatment They shed light on the way children and adolescents with learning disabilities function in the home environment in social relationships and at school Parents will find new understanding and hope as the authors with the collective voice of parents and children who deal with LD every day lead them through the maze of issues they must confront Health Promotion International ,2007 **Journal of Technology Education** ,2013 Bearing Imperfect Children Ara Allene Francis,2008 **Baily's magazine of sports and pastimes** ,1883 Childhood Education ,1970

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