

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, supported, 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

Lyn English, Tamara Moore



Stem For Kids Framework:

The Enigmatic Realm of **Stem For Kids Framework**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Stem For Kids Framework** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

<https://dev.vn.se/public/scholarship/fetch.php/spotlight%20picture%20book%20toddlers.pdf>

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