

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 through the 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:

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Stem For Kids Framework**

In a world inundated with monitors and the cacophony of immediate communication, the profound power and mental resonance of verbal beauty often diminish in to obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, situated within the lyrical pages of **Stem For Kids Framework**, a charming function of fictional elegance that impulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that enchanting opus instructions viewers on a mental odyssey, gently revealing the latent potential and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is central styles, dissect their charming writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

<https://dev.vn.se/About/Resources/HomePages/ebook%20goodreads%20choice%20finalist.pdf>

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Stem For Kids Framework Introduction

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