

# ACCESS TO STEM: A FRAMEWORK

## CREATING SPACE FOR ALL LEARNERS



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
<b>Community Engagement</b>	<ul style="list-style-type: none"> <li>• Create plans for internal and external communication and outreach</li> <li>• Build cross-sector partnerships to cultivate a STEM learning ecosystem</li> <li>• Offer community and family engagement opportunities</li> </ul>
<b>Data Informed Decision Making</b>	<ul style="list-style-type: none"> <li>• Identify ways to collect youth and program level data to improve program results</li> <li>• Collect feedback from youth and families</li> <li>• Conduct evaluation to assess broader community needs</li> </ul>
<b>Program Design (quality and relevance)</b>	<ul style="list-style-type: none"> <li>• Involve stakeholders who represent the community and offer diverse perspectives in program design</li> <li>• Start an advisory board with key stakeholders to provide ongoing guidance and feedback</li> <li>• Be intentional in program designs to engage and effectively serve all youth</li> </ul>
<b>Program Operations</b>	<ul style="list-style-type: none"> <li>• Ensure all youth have access to programming (location, schedule, transportation, technology)</li> <li>• Ensure all youth feel welcomed (direct outreach to diverse populations, marketing designed to engage all youth, welcoming environment)</li> <li>• Recruit and retain staff who are representatives of the community</li> </ul>

Strategies	Tactics
<b>Peer Support</b>	<ul style="list-style-type: none"> <li>• Provide a supportive environment for all youth</li> <li>• Encourage positive peer connections</li> <li>• Help all youth feel they are part of a STEM community</li> </ul>
<b>Positive Youth Development</b>	<ul style="list-style-type: none"> <li>• Support of youth to make personal connections to and a greater sense of belonging in STEM</li> <li>• Help all youth develop self-efficacy and confidence in STEM</li> <li>• Develop all youth voice and choice</li> </ul>
<b>Relevance</b>	<ul style="list-style-type: none"> <li>• Connect programming to school, home, and other settings</li> <li>• Leverage all youth interests, knowledge, and lived experiences</li> <li>• Show how STEM can make a difference in youth's lives and in their communities</li> </ul>
<b>Supportive Relationships</b>	<ul style="list-style-type: none"> <li>• Make community and family connections</li> <li>• Provide opportunities to interact with and learn from diverse STEM role models</li> <li>• Recruit and retain staff skilled in developing and supporting positive relationships</li> </ul>

Strategies	Tactics
<b>Connected Pathways</b>	<ul style="list-style-type: none"> <li>• Provide opportunities to learn about and explore a variety of STEM careers</li> <li>• Create partnerships with other STEM programs to encourage further participation</li> <li>• Provide exposure to role models (STEM role models who have experienced diverse career pathways)</li> </ul>
<b>Curriculum</b>	<ul style="list-style-type: none"> <li>• Foster engineering mindset practices (applying math and computer science)</li> <li>• Create a learning environment that offers voice and choice to engage all youth in STEM</li> <li>• Provide opportunities for all youth to do authentic practices that STEM professionals do</li> </ul>
<b>Professional Development (for the field)</b>	<ul style="list-style-type: none"> <li>• Provide opportunities for education to reflect on their own lived experience</li> <li>• Provide training for education to make STEM personally relevant to all youth</li> <li>• Engage education or STEM professional development offerings (role models, engineering mindset, growth mindset, etc.)</li> </ul>
<b>21st Century Skills</b>	<ul style="list-style-type: none"> <li>• Provide opportunities to collaborate and develop collaboration skills</li> <li>• Ask open-ended questions to help youth critically think and deepen their understanding</li> <li>• Facilitate development of a growth mindset</li> </ul>

# Framework Stem For Kids

**EW Minium**



**Framework Stem For Kids:**

## The Enigmatic Realm of **Framework Stem For Kids**: 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 short of extraordinary. Within the captivating pages of **Framework Stem For Kids** a literary masterpiece penned by way of a renowned author, readers attempt 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 affect the hearts and minds of those who partake in its reading experience.

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