

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 |
|---|---|
| Community Engagement | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 relevance) | <ul style="list-style-type: none"> • Involve stakeholders who represent the community and offer diverse perspectives in program design • Start an advisory board with key stakeholders to provide ongoing guidance and feedback • Be intentional in program designs to engage and effectively serve all youth |
| Program Operations | <ul style="list-style-type: none"> • Ensure all youth have access to programming (location, schedule, transportation, technology) • Ensure all youth feel welcomed (direct outreach to diverse populations, marketing designed to engage all youth, welcoming environment) • Recruit and retain staff who are representatives of the community |

| Strategies | Tactics |
|-----------------------------------|---|
| Peer Support | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Support of 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 role models (STEM role models who have experienced these career pathways) |
| Curriculum | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • 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 STEM professional development offerings (role models, engineering mindset, growth mindset, etc.) |
| 21st Century Skills | <ul style="list-style-type: none"> • 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

Rachel Sandford



Stem For Kids Framework:

Embracing the Melody of Term: An Psychological Symphony within **Stem For Kids Framework**

In a global taken by monitors and the ceaseless chatter of fast conversation, the melodic splendor and psychological symphony developed by the prepared term often diminish in to the back ground, eclipsed by the persistent noise and interruptions that permeate our lives. Nevertheless, set within the pages of **Stem For Kids Framework** a charming literary treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that fascinating masterpiece conducts readers on a psychological journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this moving analysis, we shall investigate the book is key harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

<https://matrix.jamesarcher.co/data/scholarship/fetch.php/Dark%20Romance%20Thriller%20Ultimate%20Guide.pdf>

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Stem For Kids Framework Introduction

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