

ACCESS TO STEM: A FRAMEWORK



stemOnext
OPPORTUNITY FUND

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 inclusivity)	<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, valued, and supported through outreach, programming, and learning 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

Framework Stem For Kids

Lei Shi



Framework Stem For Kids:

This book delves into Framework Stem For Kids. Framework Stem For Kids is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Framework Stem For Kids, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Framework Stem For Kids
 - Chapter 2: Essential Elements of Framework Stem For Kids
 - Chapter 3: Framework Stem For Kids in Everyday Life
 - Chapter 4: Framework Stem For Kids in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Framework Stem For Kids. The first chapter will explore what Framework Stem For Kids is, why Framework Stem For Kids is vital, and how to effectively learn about Framework Stem For Kids.
3. In chapter 2, this book will delve into the foundational concepts of Framework Stem For Kids. This chapter will elucidate the essential principles that must be understood to grasp Framework Stem For Kids in its entirety.
4. In chapter 3, this book will examine the practical applications of Framework Stem For Kids in daily life. This chapter will showcase real-world examples of how Framework Stem For Kids can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Framework Stem For Kids in specific contexts. This chapter will explore how Framework Stem For Kids is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Framework Stem For Kids. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Framework Stem For Kids.

https://matrix.jamesarcher.co/public/uploaded-files/HomePages/International_Bestseller_Young_Adult_Life_Skills.pdf

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Framework Stem For Kids Introduction

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