

# 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.

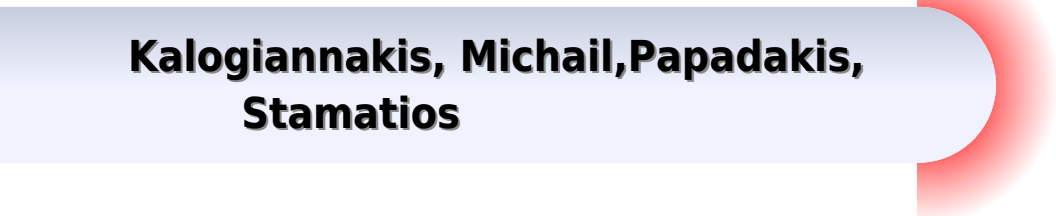
| Strategies                                      | Tactics                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 inclusivity)</b> | <ul style="list-style-type: none"> <li>• Involve stakeholders who represent the community and offer diverse perspectives in program design</li> <li>• Prioritize an explicitly biased 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, directed, supported through the diverse populations, recruiting designed to engage all youth, welcoming environment</li> <li>• Recruit and retain staff who are representative 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 all 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 relatively 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 experiences</li> <li>• Provide training for educators to make STEM personally relevant to all youth</li> <li>• Engage educators in 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>                                                                        |

# STEM For Kids Framework

**Kalogiannakis, Michail, Papadakis,  
Stamatios**



## **STEM For Kids Framework:**

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

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to STEM For Kids Framework
- Chapter 2: Essential Elements of STEM For Kids Framework
- Chapter 3: STEM For Kids Framework in Everyday Life
- Chapter 4: STEM For Kids Framework in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of STEM For Kids Framework. The first chapter will explore what STEM For Kids Framework is, why STEM For Kids Framework is vital, and how to effectively learn about STEM For Kids Framework.
3. In chapter 2, the author will delve into the foundational concepts of STEM For Kids Framework. The second chapter will elucidate the essential principles that need to be understood to grasp STEM For Kids Framework in its entirety.
4. In chapter 3, this book will examine the practical applications of STEM For Kids Framework in daily life. The third chapter will showcase real-world examples of how STEM For Kids Framework can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of STEM For Kids Framework in specific contexts. The fourth chapter will explore how STEM For Kids Framework is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about STEM For Kids Framework. The final 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of STEM For Kids Framework.

<https://dev.vn.se/About/detail/index.jsp/Dark%20Romance%20Thriller%20Global%20Trend.pdf>

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