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STEMCAP Transitions Welcome



Reminder:

STEM Collaborative Action Plan Project Goal:

“Develop a collaboration and a strategic action plan to increase the number and support the development of science, technology, engineering and math (STEM) students, graduates, teachers, professors and mentors within the California Innovation Corridor and the State of California, leveraging the resources and efforts not only of education and academia (K-20, public and private), but of industry and the informal science network”





Seamless Transitioning



DRAFT Goal Statement

Every student in the corridor/State will be motivated, academically prepared and realize potential in STEM academic areas and will have the opportunity to participate in the STEM professional workforce upon completion of elementary, middle, high school, certificate, AA, transfer, BS and graduate degree.





Inspire



- Inspire students with confidence through success
 - Successes in STEM help other areas like English and art by giving students confidence
- As early as preschool
 - GEMS, FOSS (Full Option Science System) may serve as potential resources.
- Through culturally valid role models and mentors
 - Hollywood can serve as source of inspiration
 - Female and African American astronauts
 - Famous entrepreneurs





Inspire



- Through parent involvement
- Career path choices
- New culture of science and technology
 - Address culture that sets limitations for career development
 - Student expectations derived from experiences of parents
 - Alternative media; Blogs, YouTube, radio, etc.



Inspire



- Urban reality
- Community economic vitality
- New stereotypes and expectations
- Innovations
- Partnerships for seamless transitions
- Informal Education
 - Science centers; there exists an association of science centers
 - Girl Scouts, Boy Scouts





Engage



- Each student
- California STEM industries
- Connect nodes on the lattice
- Provide opportunity at all transition points
 - Help students to understand impact of decisions made during grades 1-8 on future opportunities
 - Can use STEM Inventory as resource to map opportunities



