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STEMCAP Curriculum 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”





Working Group Goals – Steering Committee Inputs



December 9th Working Group Kick-Off

- Goal Statement
- Key Components of strategy
- Criteria, principles for best practices, models
- Measures/outcomes to evaluate success



Curriculum



Goal Statement

Create, fund, train and integrate relevant and inspiring STEM curriculum, activities, materials and courses into both formal and informal education, beginning at pre-school.





Strategy Elements: INSPIRE



- Each Student
- Each Teacher
- Each Community Through Collaboratives
- With Curriculum that is Global and Innovative
- Include Activities that are Relevant
- Show Possibility of Future Opportunities
- Show Relevant Role Models “Doing It”
- Increase Expectations and Access
- Show Early Success and Eliminate Exclusivity
- Connect Innovation and Application





Strategy Elements: ENGAGE



- Students, Educators, Parents, Community and Industry as Partners
- Teachers and Counselors Through STEM Professional Development
- Align Public and Private Resources
- Cultural Relevancy and Role Models
- Non-Traditional Teachers (industry, retirees, volunteers)
- Regional Collaboratives
- Novice to Expert





ENGAGE (cont.)



- Geographic Diversity – Urban to Rural
- Time and Resources Outside of Traditional School Day and Year
- New Measures of Success
- Public – Private Partnerships
- Enhance Academic Relevance of STEM Curriculum
- Career Technical Education Redefined
- Popular Media and Technology
- Informal STEM Opportunities



Strategy Elements: EDUCATE



- Each Student
- Each Teacher
- Vary Delivery to Include More Visual, Auditory, and Kinesthetic Activities
- Provide Real Examples and Applications for Theoretical Concepts
- Increase Relevancy by Connecting 3 R's
- Expand STEM Activities p-20
- Fund Materials and Facilities





EDUCATE (cont.)



- Redefine Academic Relevance
- Embrace Alternative Approaches
- Identify Best Practices and Scale Up
- Expand Student Exposure to STEM Career Options
- Expand Internships for Students and Teachers
- Educate for Growth STEM Industries and Skills





Strategy Elements: EMPLOY



- Develop and Integrate Relevant Curriculum for Growth STEM Career Opportunities
- Identify Future Workforce Career Skills for Middle and High School Career Technical Education
- Gain Agreement that One Goal of Education is to Prepare for Future Jobs
- Link Education to California's Economic Vitality
- Link STEM Courses to Current Academic Standards





EMPLOY (cont.)



- New Marketing to Attract Students
- Connect School and Family to STEM Employment
- Provide Access to Job Experts
- Increase Apprenticeships and Work Experience

