

Moving toward a STEM Plan for Massachusetts

A Call to Action



STEM Summit IV: *Accelerating Forward*

Preparing Massachusetts students for careers in
science, technology, engineering and mathematics

Why a Plan?

- Bring successful independent STEM education initiatives together
- Coordinate all the supports resources needed
- Support PK-16 teachers & students to achieve STEM educational goals.

More whys...

- Leverage public & private financial resources
- Provide a template for schools to create improvement plans
- Use data to influence policy & decision-makers
- Create a statewide information sharing/data bank

Needs

- **A Vision**
- **Measurable Goals**
- **Points of Consensus**
- **Stakeholder Involvement & Support**

Goals

- To raise the level of STEM achievement of all Massachusetts students
- To increase significantly the number of students interested in & motivated to study STEM
- To increase the number of qualified STEM teachers
- To improve & provide equitable STEM instruction, curriculum

Points of Consensus

- **The state: a comprehensive, coherent, sustained effort to help Massachusetts' students meet rigorous standards for STEM knowledge & skills.**

Points of Consensus_2

- **Effective teachers & instructional leaders make the biggest difference in student achievement.**

Points of Consensus_3

- Achieving goals requires community-wide effort, involving all stakeholders in a collaborative manner

Proposed Components of the State STEM Plan

- **Student learning experiences
(in/out of school)**
- **PK-16 teacher development &
support**

Proposed Components of the State STEM Plan_2

- **STEM Pipeline career experiences & opportunities**
- **Organizational alignment**

Proposed Components of the State STEM Plan_3

- Leadership & governance
- Public support
- Facilities & infrastructure

Proposed Components of the State STEM Plan_4

■ **Data collection, evaluation &
assessment**

■ **Mechanism for investment**

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