



## Science and Technology/Engineering Curriculum Framework Review Panel Forum

### Background

In August of 2007 the Board of Education established a schedule for the review of all of the Massachusetts Curriculum Frameworks. In the spring of 2009, we began the process of revising the 2001/2006 Science and Technology/Engineering (STE) Curriculum Framework. The review is a two-phase process involving a panel to review the existing Framework to make suggestions for revision to the Board of Elementary and Secondary Education. The STE Review Panel, appointed in March 2009, has 42 members including teachers, administrators, higher education faculty, cultural institutions, parents and members of the business community. They have been meeting regularly since May 2009. A public comment survey was sent out in March 2009 to solicit initial feedback from the public on the current document. We received approximately 460 responses to that first survey. At this time we would like to reach out to the public in order to update everyone about the review process and the panel's work to date, as well as to continue to gather input.

### Review Panel current considerations for feedback and input

1. Standards and strand maps	Develop standards and strand maps together Strand maps show the relationships among standards
2. Improve progressions of concepts	Particularly for PreK-8 standards, leading to high school Based on learning progression research, including naïve, pre- and misconceptions ("initial beliefs")
3. Strategically integrate STE skills with content	Include STE skills identified in the development of topic progressions Include STE practices (for example, skills of predicting, hypothesizing, designing, or modeling) Reflect a cohesive progression of learning as done with content Strategically integrate verbs in standards with content Student should still engage in full inquiry and design processes
4. Selectively decrease scope and update topics	Do not increase scope; try to selectively decrease scope Reasonably allow for at least 1 multi-week in-depth investigation of a topic each year Increase overall rigor of standards to be uniform across grade levels
5. Grade-by-grade & grade-span	Present PreK-5 and 6-8 standards as both grade-by-grade <i>and</i> grade span standards
6. Career & college readiness	Promote a minimum of 3, and ideally 4, lab-based high school STE courses (breadth) Promote in-depth investigations and capstone projects (depth)
7. Framework resources	Update and add Framework appendices and resources

Access strand maps of the current STE standards at: <http://www.doe.mass.edu/omste/maps/default.html>

## Science & Technology/Engineering Framework Review Feedback Form

Role/position: \_\_\_\_\_ Name (optional): \_\_\_\_\_

Forum Location: \_\_\_\_\_ Date: \_\_\_\_\_

**Please comment on the Review Panel's current considerations:**

1. Standards and strand maps	
2. Improve progressions of concepts	
3. Strategically integrate STE skills with content	
4. Selectively decrease scope and update topics	
5. Grade-by-grade & grade-span	
6. Career & college readiness	
7. Framework resources	