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TO: Members of the State Board of Education

FROM: Lillian M. Lowery, Ed.D. *Lillian M. Lowery*

DATE: January 28, 2014

SUBJECT: Science, Technology, Engineering, and Mathematics (STEM) Update

PURPOSE:

A brief update will be provided to the State Board that shares the progress of the STEM education strategic plan work.

BACKGROUND:

In 2009, a STEM report was submitted to Governor Martin O'Malley by the Governor's STEM Task Force. This report made seven recommendations aimed at establishing Maryland as a global leader in the development of its workforce of the future and its STEM-based research and economic development infrastructure. In 2013, the STEM education committee wants to build on the work of the 2009 report and recognizes that a student's STEM education experience is not contained within the walls of a classroom, but is included in preschool, after school activities, higher education, etc. Our goal is that this plan provides students with a seamless STEM education experience that will provide them with rigorous content and 21st century skills.

EXECUTIVE SUMMARY:

It is important for the Board to be updated of the work being done on the STEM education strategic plan, not only at the Maryland State Department of Education, but in collaboration with other education partners. This work will help further the mission of STEM and provide our students with a seamless STEM experience, providing them with the skills and knowledge they need to be productive members of society. The Board will be updated regularly throughout this process.

ACTION:

No action required, for discussion only.

LML:CH

Attachment (Development of STEM Education Strategic Plan draft)

Development of STEM Education Strategic Plan DRAFT

Benchmarks

Quarter completed

Determine vision and mission statements for STEM education strategic plan	1st quarter, FY14
Conduct a STEM education analysis of Maryland	2 nd quarter, FY14
Determine goal statements that address priority areas of STEM education in Maryland	2 nd quarter, FY14
Break into subcommittees to determine evidence-based objectives and implementation strategies for each goal statement	2 nd quarter, FY14
Determine outcomes, metrics, and benchmarks for each goal statement	2 nd quarter, FY14
Develop a theory of action for STEM education strategic plan	2 nd quarter, FY14
Create first draft of STEM education strategic plan for internal vetting	3 rd quarter, FY14
Finalize draft of STEM education strategic plan for external vetting	3 rd quarter, FY14
Submit STEM education strategic plan to the State Board of Education	4 th quarter, FY14

STEM education task force (18 members) consists of:

MSDE staff and representatives from LEAs, higher education, and Maryland Business Roundtable

Handout created by Cindy Hasselbring