

**STEM Transition Plan Template**  
**Implementation of STEM Standards of Practices – High School**  
**Queen Anne’s County Public Schools**  
**2012-2013**

School: \_\_\_\_\_ Principal: \_\_\_\_\_ Date: \_\_\_\_\_

**Outcome #4:** Create and deliver professional development that increases the skills and knowledge of school staff in the Maryland STEM Standards of Practice and Framework.

- A. The leadership team and faculty will have an understanding of the STEM Standards of Practices (standards, proficiencies, and essential skills and knowledge) and demonstrate the integration of the standards across the curriculum.**
- B. The faculty (gradesK-12) will identify the challenges for implementing the STEM Standards of Practice and Framework and develop a detailed plan for the rollout process for writing collaborative lessons.**
- C. Identified, faculty teams will begin to unpack the STEM Standards of Practice and develop at least one collaborated lesson.**
- D. Identified, faculty teams will develop, teach and video tape a collaborative STEM lessons for peer review and for the development of look-fors.**

Outcome #	Describe the specific activities to be included.	Who are the identified faculty members involved in this activity?	What resources are needed to implement this activity?	Which lead team member(s) is (are) responsible?	What is the time frame for the activity?	What is the outcome measure?
<b>4.A</b>	Present an initial overview of STEM Standards of Practices and develop a transition plan to infuse of the trans-disciplinary cross-cutting themes of STEM into current educational programs. <ul style="list-style-type: none"> <li>• Share the planning calendar and expectations for 2012-2013</li> <li>• Introduce and Review the purpose of the STEM Standards of Practice and Framework for K-12.</li> <li>• Review the STEM Standards, proficiencies, essential skills and</li> </ul>	Teacher Specialist/ Academic Deans	Copies of the STEM Standards of Practice and Framework for Grades K-12	Supervisors_ Science, Social Studies, Math	May 2012	Evaluation and Reflection

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	<p>knowledge, of progression in elementary, middle and high schools</p> <ul style="list-style-type: none"> <li>• View short video STEM lesson to generate a list of look-fors and to determine deliberate connections among the STEM contents.</li> <li>• Making real world connections after reading a global article. How is the content related to STEM education that is trans-disciplinary?</li> <li>• Identify the challenges of implementing STEM in 2012-2013</li> </ul>					
<b>4.A</b>	<p>Present an initial overview of transition plan for STEM during 2012-2013. Review the MSDE adopted STEM Standards of Practices and Framework.</p> <ul style="list-style-type: none"> <li>• Share the planning calendar and expectations for 2012-2013</li> <li>• Introduce and Review the purpose of the STEM Standards of Practice and Framework for K-12.</li> <li>• Review the STEM Standards, proficiencies, essential skills and knowledge, of progression in elementary, middle and high schools</li> <li>• View short video STEM lesson to generate a list of look-fors and to determine deliberate connections among the STEM contents.</li> <li>• Making real world connections after reading a global article. How is the</li> </ul>	School Leadership team_(Principals, APs, AD)	Copies of the STEM Standards of Practice Framework for Grades K-12	Supervisors_ Science, Social Studies, Math	June 2012	Evaluation/ Feedback Form

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	<p>content related to STEM education that is trans-disciplinary?</p> <ul style="list-style-type: none"> <li>Identify the challenges of implementing STEM in 2012-2013</li> </ul>					
4.B	<p><i>The vision for STEM and the SSOP Grade Bands and Expectations will be shared with the faculty.</i></p> <ul style="list-style-type: none"> <li><i>Review the purpose of the SSOP.</i></li> <li><i>Scavenger Hunt or Find the Expert Activity to introduce STEM Standards of Practice and Framework</i></li> <li><i>Review existing lesson plans that incorporate SSOP's</i></li> <li><i>Review the transition plan with the faculty to review goals for the year</i></li> </ul> <p><i>Teacher Specialists/Academic Deans will give feedbacks on challenges and successes and share the plans how they will present the rollout process for writing collaborative STME lessons.</i></p> <ul style="list-style-type: none"> <li><i>SWOT (Strengths, Weaknesses, Obstacles, and Threats) analysis will be completed. With Teacher Specialist/Academic Dean during the October meeting.</i></li> </ul>	<p>ALL Faculty (grades 9-12) &amp; Teacher Specialist/Academic Deans</p>	<p>Copies of the STEM Standards of Practice Framework for Grades K-12</p> <p>Copies of the Scavenger Hunt from EEA (enhanced)</p> <p>Faculty members will be asked to link 2 STEM SOP's to a lesson in their content area.</p> <p>HW: A standard (or two) will be chosen and a deliberate connection will be made in the content classrooms and daily lesson plans. This will be brought to the October Meeting</p>	<p>Principal Academic Deans Leadership Team</p>	<p><b>August 2012</b></p>	<p>To become familiar with the STEM Standards of Practice</p> <p>To identify SSOP's that are connected to existing lesson plans</p>

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4.C	<p><i>Identify the components of a STEM lessons. Review and continue to unpack the Content Teams SSOP with the faculty.</i></p> <p><i>Faculty members complete the “Find Someone Who…” Activity from EEA. To assist in reviewing and reading the SSOP’s.</i></p> <p><i>Review and use STEM Checklist of “Look fors” from EEA that may be used to critique a STEM lesson.</i></p> <p><i>Describe and review with the faculty the 5E’s lesson components.</i></p> <p><i>Identified, faculty teams will continue to unpack the STEM Standards of Practice and develop at least one collaborated lesson.</i></p>	All Faculty and Identified STEM Leadership Team	<p>Copies of the STEM Standards of Practice Framework for Grades K-12</p> <p>“Find someone who…activity”</p> <p>Look For’s Checklist from EEA</p> <p>Sentence Strips to write the strongest 5E identified from the sample lesson plan.</p>	Principal Academic Dean Leadership Team	<i>October 2012</i>	<p>To become familiar with the components of a STEM lesson.</p> <p>To become familiar with the Look Fors from the checklist provided by the EEA.</p>
4.C	<p><i>Identify the components of a STEM lessons. Review and continue to unpack the Content Teams SSOP with the faculty.</i></p> <p><i>The identified Leadership Team will Review and discuss the components of the STEM lesson brought to the professional development.</i></p> <ul style="list-style-type: none"> <li><i>Review and use STEM Checklist of</i></li> </ul>	Selected STEM Team Members (grades 9-12)	<p>Copies of the STEM Standards of Practice Framework for Grades K-12</p> <p>Flow chart from EEA binder</p> <p>Lesson Plan as directed to bring to the</p>	Principal Academic Deans Leadership Team	<i>November-December 2012</i>	<p>To become familiar with the components of a STEM lesson.</p> <p>To become familiar with the Look Fors from the</p>

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	<p><i>“Look fors” from EEA that may be used to critique a STEM lesson.</i></p> <ul style="list-style-type: none"> <li><i>• Begin to write a sample of a collaborative STEM lesson.</i></li> <li><i>• The sample STEM lesson will be critiqued using checklist from EEA binder.</i></li> <li><i>• STEM Leadership team begins to analyze lesson stems that are related to STEM SOP.</i></li> </ul>					<p>checklist provided by the EEA.</p>
4C	<p><i>Provide updates and feedback on the process of development of the collaborative lessons and the unpacking of the SSOP and the 5E lesson plans to faculty.</i></p> <ul style="list-style-type: none"> <li><i>• The Content Teams teams will develop at least one good collaborative STEM lesson that is trans- disciplinary.</i></li> <li><i>• The faculty will review and discuss the model lessons.</i></li> <li><i>• The TS/AD will share and discuss the progress of the school’s STEM implementation and Professional Development.</i></li> </ul>	<p>Faculty (grades K-12) STEM Expert Team</p>	<p>Copies of the STEM Standards of Practice Framework for Grades K-12</p> <p>Chart paper so teachers can identify the appropriate 5E lesson stem. (Jigsaw whole faculty activity)</p>	Principal Academic Deans Leadership Team	January 2013	<p>To determine how to unpack a STEM lesson by using the 5E lesson plan method.</p> <p>To recognize the need for collaborative lesson planning using STEM SOP’s</p>

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4.C	<p><i>Present to the faculty a sample STEM lessons with the EEA Checklist. Teachers will use a peer review to analyze the lesson for STEM components.</i></p> <p><i>The faculty will continue to discuss the SSOP and refine their understanding of a collaborative STEM lesson.</i></p>	Faculty (grades K-12)	Copies of the STEM Standards of Practice Framework for Grades K-12	Principal Academic Deans Leadership Team	February 2013	
4D	<p><i>The identified Expanded Content Teams teams will teach one collaborative lesson, have a peer observation with feedback (Recommended: Film one or two lessons with students that demonstrate the best STEM Standards of Practices).</i></p> <p><i>The leadership team will critique lesson(s) using the EEA checklist, walkthroughs and informal observations.</i></p> <p><i>The faculty will critique the demonstration lesson.</i></p>	Leadership Team  Content STEM teams  Faculty (grades K-12)	Copies of the STEM Standards of Practice Framework for Grades K-12	Principal Academic Deans Leadership Team	March-May 2013	<p>To complete peer observations using the EEA Checklist.</p> <p>To analyze a video of a “best practices” STEM lesson using the EEA Checklist.</p>