



# STEM 2.0 School Designation (Middle School)



Criteria	1 Point	2 Points	3 Points
<b>1. STEM-School Curriculum Integration</b> <i>[Integration]</i>	<ul style="list-style-type: none"> <li>Evidence of STEM curriculum integration in <b>one grade-level</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Evidence of STEM curriculum integration in at least <b>two department-levels</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Evidence of STEM curriculum integration at the <b>school-wide level</b>.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: Lesson plans, student artifacts, department goals, school showcase, school STEM goals, pictures and videos</b>			
<b>2. STEM-Science Offerings</b> <i>[Operation]</i>	<ul style="list-style-type: none"> <li>At least <b>25%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>5%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>At least <b>35%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>10%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>At least <b>45%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>15%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: Master schedule and student count in courses</b>			
<b>3. STEM-Mathematics Offerings</b> <i>[Operation]</i>	<ul style="list-style-type: none"> <li>Fulfill course offering of Algebra I Honors.</li> <li>At least <b>25%</b> of 8<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>Fulfill course offering of Algebra I Honors.</li> <li>At least <b>35%</b> of 8<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>Fulfill course offerings of Algebra I Honors <b>and</b> Geometry Honors.</li> <li>At least <b>45%</b> of 8<sup>th</sup> grade students enrolled in either Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> <li>At least <b>15%</b> of 7<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: Master schedule and student count in courses</b>			
<b>4. Career &amp; Technical Education</b> <i>[Operation]</i>	<ul style="list-style-type: none"> <li>Offer at least <b>one</b> of the Career Technical Education (CTE) course within STEM career cluster.</li> <li>Maintain the <b>minimum</b> district average passing rate for the accompanying Industry Certification Exam (ICE).</li> </ul>	<ul style="list-style-type: none"> <li>Offer at least <b>two</b> of the CTE courses within STEM career cluster.</li> <li>Maintain the <b>minimum</b> district average passing rate for the accompanying ICE.</li> </ul>	<ul style="list-style-type: none"> <li>Offer at least <b>three</b> of the CTE courses within STEM career cluster.</li> <li>Maintain the <b>minimum</b> district average passing rate for the accompanying ICE.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: Master schedule, CTE STEM courses and ICE data</b>			



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<b>5. STEM Competitions [Operation]</b>	<ul style="list-style-type: none"> <li>• <b>CTE:</b> Maintain good standing in related CTSO and participate in local competition in respective organization.</li> <li>• <b>SECME and Science Fair:</b> Minimum <b>five</b> Science Fair project board submissions; SECME essay, banner, Mathematics Challenge <b>and two</b> other <b>STEM-focused</b> events.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CTE:</b> Maintain good standing in related CTSO and participate in local competition in respective organization.</li> <li>• <b>SECME and Science Fair:</b> Minimum <b>seven</b> Science Fair project board submissions; SECME essay, banner, Mathematics Challenge <b>and four</b> other <b>STEM-focused</b> events.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CTE:</b> Maintain good standing in related CTSO and participate in local competition in respective organization.</li> <li>• <b>SECME and Science Fair:</b> Minimum <b>seven</b> Science Fair project board submissions; SECME essay, banner, Mathematics Challenge <b>and six</b> other <b>STEM-focused</b> events.</li> </ul>
<p>Artifacts that quantify STEM efforts: <i>CTSO Competition Results &amp; The FAIR competition results; Dream in Green, Fairchild Botanical Garden, Math Counts, DCCTM Math Bowl, Middlementary Math Bonanza, Robotics Competitions, School-sponsored clubs, SECME <a href="http://science.dadeschools.net/secme/default.html">http://science.dadeschools.net/secme/default.html</a> and Science Fair <a href="http://science.dadeschools.net/scienceFair/default.html">http://science.dadeschools.net/scienceFair/default.html</a></i></p>			
<b>6. Teacher Professional Development [Operation]</b>	<ul style="list-style-type: none"> <li>• <b>40%</b> of STEM teachers participate in at least <b>one</b> STEM-focused professional development <b>and</b> there is clear evidence of correlation and its implementation in classroom instruction.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>50%</b> of STEM teachers participate in at least <b>one</b> STEM-focused professional development <b>and</b> there is clear evidence of correlation and its implementation in classroom instruction.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>60%</b> of STEM teachers participate in at least <b>one</b> STEM-focused professional development <b>and</b> there is clear evidence of correlation and its implementation in classroom instruction.</li> </ul>
<p>Proof or artifacts to quantify STEM efforts: <i>MyLearningPlan Documentation, "Professional Development Metrics Form," agendas, sign-in sheets, lesson plans, student work/artifacts, pictures or videos of teachers incorporating PD information and content in the classroom</i></p>			
<b>7. Partnerships [Operation]</b>	<ul style="list-style-type: none"> <li>• At least <b>two</b> business, community, or post-secondary partnerships are involved in an <b>on-going relationship (at least four interactions)</b> with the STEM instructional program <b>and</b> are directly connected to in-class learning.</li> </ul>	<ul style="list-style-type: none"> <li>• At least <b>three</b> business, community, or post-secondary partnerships are involved in an <b>on-going relationship (at least four interactions)</b> with the STEM instructional program <b>and</b> are directly connected to in-class learning.</li> </ul>	<ul style="list-style-type: none"> <li>• At least <b>four</b> business, community, or post-secondary partnerships are involved in an <b>on-going relationship (at least four interactions)</b> with the STEM instructional program <b>and</b> are directly connected to in-class learning.</li> </ul>
<p>Proof or artifacts to quantify STEM efforts: <i>work-based learning plan, college/industry visits, research, advisory committee membership list, guest speakers, agendas and sign-in sheets</i></p>			



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<b>8. STEM-Science Equity: Minority and economically disadvantaged (free and reduced-price lunch).</b> <i>[Academic]</i>	<ul style="list-style-type: none"> <li>At least <b>25%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>5%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>At least <b>35%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>10%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>At least <b>45%</b> of 8<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> <li>At least <b>15%</b> of 7<sup>th</sup> grade students enrolled in Physical Science Honors, Biology Honors, PreIB <b>and/or</b> PreAICE combined.</li> </ul>
	<ul style="list-style-type: none"> <li>Increase of <b>3 to 4 percentage points</b> scoring at Achievement Level 3 or higher on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 80%</b> of students taking the Algebra I and Geometry EOCs score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>40%</b> of students scoring at Achievement Level 3 or higher on the State Science Assessment, with the exception of Biology EOC, scoring at least <b>80%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>5 to 7 percentage points</b> scoring at Achievement Level 3 or higher in on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 85%</b> of students taking the Algebra I and Geometry EOCs score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>60%</b> of students scoring at Achievement Level 3 or higher on the State Science Assessment, with the exception of Biology EOC, scoring at least <b>85%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>8 or more percentage points</b> scoring at Achievement Level 3 or on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 90%</b> of students taking the Algebra I and Geometry EOC score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>80%</b> of students scoring at Achievement Level 3 or higher on the State Science Assessment and Biology EOC, scoring at least <b>90%</b>.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: <i>Data Collected by the STEM School Designation Office</i></b>			
<b>9. STEM-Mathematics Equity: Minority and economically disadvantaged (free and reduced-price lunch).</b> <i>[Academic]</i>	<ul style="list-style-type: none"> <li>Fulfill course offering of Algebra I Honors.</li> <li>At least <b>25%</b> of 8<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>Fulfill course offering of Algebra I Honors.</li> <li>At least <b>35%</b> of 8<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>	<ul style="list-style-type: none"> <li>Fulfill course offerings of Algebra I Honors <b>and</b> Geometry Honors.</li> <li>At least <b>45%</b> of 8<sup>th</sup> grade students enrolled in either Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> <li>At least <b>15%</b> of 7<sup>th</sup> grade students enrolled in Algebra I Honors, Geometry Honors, PreIB Mid Yrs <b>and/or</b> PreAICE combined.</li> </ul>
	<ul style="list-style-type: none"> <li>Increase of <b>3 to 4 percentage points</b> scoring at Achievement Level 3 or higher on the State Mathematics Assessment.</li> <li><b>OR</b> at least <b>40%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment, with the exception of Algebra I and Geometry EOC, scoring at least <b>80%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>5 to 7 percentage points</b> scoring at Achievement Level 3 or higher on the State Mathematics Assessment.</li> <li><b>OR</b> at least <b>60%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment, with the exception of Algebra I and Geometry EOC, scoring at least <b>85%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>8 or more percentage points</b> scoring at Achievement Level 3 or higher on the State Mathematics Assessment.</li> <li><b>OR</b> at least <b>80%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment, Algebra I and Geometry EOC, scoring at least <b>90%</b>.</li> </ul>



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<b>Proof or artifacts to quantify STEM efforts: <i>Data Collected by the STEM School Designation Office</i></b>			
<b>10. Science Accountability [Academic]</b>	<ul style="list-style-type: none"> <li>Increase of <b>3 to 5 percentage points</b> scoring at Achievement Level <b>3</b> or higher on the State Science Assessment (including Biology EOC).</li> <li><b>OR</b> at least <b>40%</b> of students scoring at Achievement Level <b>3</b> or higher on the State Science Assessment, with the exception of Biology EOC, scoring at least <b>80%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>6 to 11 percentage points</b> scoring at Achievement Level <b>3</b> or higher on the State Science Assessment (including Biology EOC).</li> <li><b>OR</b> at least <b>60%</b> of students scoring at Achievement Level <b>3</b> or higher on the State Science Assessment, with the exception of Biology EOC, scoring at least <b>85%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>12 or more percentage points</b> scoring at Achievement Level <b>3</b> or higher on the State Science Assessment (including Biology EOC).</li> <li><b>OR</b> at least <b>80%</b> of students scoring at Achievement Level <b>3</b> or higher on the State Science Assessment, with the exception of Biology EOC, scoring at least <b>90%</b>.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: <i>Data Collected by the STEM School Designation Office</i></b>			
<b>11. Mathematics Accountability [Academic]</b>	<ul style="list-style-type: none"> <li>Increase of <b>3 to 4 percentage points</b> scoring at Achievement Level 3 or higher on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 80%</b> of students taking the Algebra I and Geometry EOCs score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>40%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment with the exception of Algebra I and Geometry EOC, scoring at least <b>80%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>5 to 7 percentage points</b> scoring at Achievement Level 3 or higher in on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 85%</b> of students taking the Algebra I and Geometry EOCs score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>60%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment with the exception of Algebra I and Geometry EOC, scoring at least <b>85%</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Increase of <b>8 or more percentage points</b> scoring at Achievement Level 3 or on the grades 6-8 State Mathematics Assessment (including EOC's) and <b>at least 90%</b> of students taking the Algebra I and Geometry EOC score at Achievement Level 3 or higher.</li> <li><b>OR</b> at least <b>80%</b> of students scoring at Achievement Level 3 or higher on the State Mathematics Assessment with the exception of Algebra I and Geometry EOC, scoring at least <b>90%</b>.</li> </ul>
<b>Proof or artifacts to quantify STEM efforts: <i>Data Collected by the STEM School Designation Office</i></b>			