



STEM 2.0 School Designation (High School)

Criteria	1 Point	2 Points	3 Points
1. STEM-School Curriculum Integration [Integration]	<ul style="list-style-type: none"> Evidence of STEM curriculum integration in at least one grade-level. 	<ul style="list-style-type: none"> Evidence of STEM curriculum integration in at least two department-levels. 	<ul style="list-style-type: none"> Evidence of STEM curriculum integration at the school-wide level.
Proof or artifacts to quantify STEM efforts: Lesson plans, student artifacts, department goals, school showcase, school STEM goals, pictures and videos			
2. STEM-Science Offerings [Operation]	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer three of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer two of the above courses</i>). Minimum of 5% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer four of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer three of the above courses</i>). Minimum of 10% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer four of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer three of the above courses</i>). Minimum of 15% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population.
Proof or artifacts to quantify STEM efforts: Master Schedule and AP/IB/AICE scores and DE grades			
3. STEM-Mathematics Offerings [Operation]	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer two of the above AICE/IB/AP/DE mathematics courses. (<i>HS with populations less than or equal to 500 students may offer one of the above courses</i>)). Minimum of 5% total students enrolled in one of the above mathematics courses. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade: AICE/IB/AP/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer three of the above AICE/IB/AP/DE mathematics courses. (<i>HS with populations less than or equal to 500 students may offer two of the above courses</i>)). Minimum of 10% total students enrolled in one of the above mathematics courses. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade: AICE/IB/AP/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer three of the above AICE/IB/AP/DE mathematics courses. (<i>HS with populations less than or equal to 500 students may offer two of the above courses</i>)). Minimum of 15% total students enrolled in one of the above mathematics courses.
Proof or artifacts to quantify STEM efforts: Master Schedule and AP/IB/AICE scores and DE grades			



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4. Career & Technical Education Offerings <i>[Operation]</i>	<ul style="list-style-type: none"> Offer at least one of the Career Technical Education (CTE) program within STEM career cluster (see link below). Maintain the minimum district average passing rate for the accompanying Industry Certification Exam (ICE). 	<ul style="list-style-type: none"> Offer at least two of the CTE programs within STEM career cluster (see link below). Maintain the minimum district average passing rate for the accompanying ICE. 	<ul style="list-style-type: none"> Offer at least three of the CTE programs within STEM career cluster (see link below). Maintain the minimum district average passing rate for the accompanying ICE.
Proof or artifacts to quantify STEM efforts: <i>Master Schedule and ICE scores, from CTE STEM clusters/courses</i> http://dcte.dadeschools.net/stem.html			
5. Teacher Professional Development <i>[Operation]</i>	<ul style="list-style-type: none"> 40% of STEM teachers participate in at least one STEM-focused professional development and there is clear evidence of correlation and its implementation in classroom instruction. 	<ul style="list-style-type: none"> 50% of STEM teachers participate in at least one STEM-focused professional development and there is clear evidence of correlation and its implementation in classroom instruction. 	<ul style="list-style-type: none"> 60% of STEM teachers participate in at least one STEM-focused professional development and there is clear evidence of correlation and its implementation in classroom instruction.
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>			
6. STEM Competitions <i>[Operation]</i>	<ul style="list-style-type: none"> CTE: Maintain good standing in related CTSO and participate in local competition in respective organization. SECME and Science Fair: Minimum five Science Fair project board submissions; SECME essay, banner, Mathematics Challenge and two other STEM-focused events. 	<ul style="list-style-type: none"> CTE: Maintain good standing in related CTSO and participate in local competition in respective organization. SECME and Science Fair: Minimum seven Science Fair project board submissions; SECME essay, banner, Mathematics Challenge and four other STEM-focused events. 	<ul style="list-style-type: none"> CTE: Maintain good standing in related CTSO and participate in local competition in respective organization. SECME and Science Fair: Minimum seven Science Fair project board submissions; SECME essay, banner, Mathematics Challenge and six other STEM-focused events.
Artifacts that quantify STEM efforts: <i>CTSO Competition Results & The FAIR competition results; Dream in Green, Fairchild Botanical Garden, Mu Alpha Theta, Robotics Competitions, School-sponsored clubs, SECME</i> http://science.dadeschools.net/secme/default.html and Science Fair http://science.dadeschools.net/scienceFair/default.html			



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7. Partnerships [Operation]	<ul style="list-style-type: none"> At least two business, community, or post-secondary partnerships are involved in an on-going relationship (at least four interactions) with the STEM instructional program and are directly connected to in-class learning. 	<ul style="list-style-type: none"> At least three business, community, or post-secondary partnerships are involved in an on-going relationship (at least four interactions) with the STEM instructional program and are directly connected to in-class learning. 	<ul style="list-style-type: none"> At least four business, community, or post-secondary partnerships are involved in an on-going relationship (at least four interactions) with the STEM instructional program and are directly connected to in-class learning.
Proof or artifacts to quantify STEM efforts: Internships, mentors, advisory committee membership list, guest speakers, work-based learning plan and college/industry visits, research, agendas and sign-in sheets			
8. STEM-Science Equity: Minority and economically disadvantaged (free and reduced-price lunch). [Academic]	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer three of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer two of the above courses</i>). Minimum of 5% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer four of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer three of the above courses</i>). Minimum of 10% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE in Science Offerings; Biology, Chemistry, Environmental Science & Physics. (Note: High schools must offer four of the above AP/IB/AICE/DE science courses. <i>HS with populations less than or equal to 500 students may offer three of the above courses</i>). Minimum of 15% total of students enrolled in one of the above courses calculated as follows; number of students enrolled in an AP/IB/AICE/DE science classes divided by 11th and 12th grade population.
	<ul style="list-style-type: none"> Increase of 3 to 5 percentage points scoring at Achievement Level 3 or higher on the State Science Assessment OR at least 40% of students at Achievement Level 3 or higher on the State Science Assessment. 	<ul style="list-style-type: none"> Increase of 6 to 11 percentage points scoring at Achievement Level 3 or higher on the State Science Assessment. OR at least 60% of students at Achievement Level 3 or higher on the State Science Assessment. 	<ul style="list-style-type: none"> Increase of 12 or more percentage points scoring at Achievement Level 3 or higher on the State Science Assessment. OR at least 80% of students at Achievement Level 3 or higher on the State Science Assessment.
Proof or artifacts to quantify STEM efforts: Data Collected by the STEM School Designation Office			



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9. STEM-Mathematics Equity: Minority and economically disadvantaged (free and reduced-price lunch). [Academic]	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade AP/IB/AICE/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer two of the above AICE/IB/AP/DE mathematics courses. <i>(HS with populations less than or equal to 500 students may offer one of the above courses).</i>) Minimum of 5% total students enrolled in one of the above mathematics courses. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade: AICE/IB/AP/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer three of the above AICE/IB/AP/DE mathematics courses. <i>(HS with populations less than or equal to 500 students may offer two of the above courses).</i>) Minimum of 10% total students enrolled in one of the above mathematics courses. 	<ul style="list-style-type: none"> Fulfill the recommended offerings for the appropriate grade: AICE/IB/AP/DE Mathematics Offerings; Calculus, College Algebra, Statistics. (Note: High schools must offer three of the above AICE/IB/AP/DE mathematics courses. <i>(HS with populations less than or equal to 500 students may offer two of the above courses).</i>) Minimum of 15% total students enrolled in one of the above mathematics courses.
	<ul style="list-style-type: none"> Increase 3 to 4 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 40% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 5 to 7 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 60% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 8 or more percentage points at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 80% of students at Achievement Level 3 or higher on the State Mathematics Assessment.
Proof or artifacts to quantify STEM efforts: Data Collected by the STEM School Designation Office			
10. Science Accountability (Spring assessment and first-time tester) [Academic]	<ul style="list-style-type: none"> Increase of 3 to 5 percentage points scoring at Achievement Level 3 or higher on the State Science Assessment. OR at least 40% of students at Achievement Level 3 or higher on the State Science Assessment. 	<ul style="list-style-type: none"> Increase of 6 to 11 percentage points scoring at Achievement Level 3 or higher on the State Science Assessment. OR at least 60% of students at Achievement Level 3 or higher on the State Science Assessment. 	<ul style="list-style-type: none"> Increase of 12 or more percentage points scoring at Achievement Level 3 or higher on the State Science Assessment. OR at least 80% of students at Achievement Level 3 or higher on the State Science Assessment.
	<ul style="list-style-type: none"> Increase of 3 to 4 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 40% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 5 to 7 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 60% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 8 or more percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 80% of students at Achievement Level 3 or higher on the State Mathematics Assessment.
Proof or artifacts to quantify STEM efforts: Data Collected by the STEM School Designation Office			
11. Mathematics Accountability (Spring assessment and first-time tester) [Academic]	<ul style="list-style-type: none"> Increase of 3 to 4 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 40% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 5 to 7 percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 60% of students at Achievement Level 3 or higher on the State Mathematics Assessment. 	<ul style="list-style-type: none"> Increase of 8 or more percentage points scoring at Achievement Level 3 or higher on the State Mathematics Assessment. OR at least 80% of students at Achievement Level 3 or higher on the State Mathematics Assessment.
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12. College and Career Acceleration Success <i>[Academic]</i>	<ul style="list-style-type: none"> Increase of 1 to 3 percentage points on the college career acceleration success component of the school grades. OR at least 40% points that school earned on the college career success component of the school grades. 	<ul style="list-style-type: none"> Increase of 4 to 10 percentage points on the college career acceleration success component of the school grades. OR at least 60% points that school earned on the college career success component of the school grades. 	<ul style="list-style-type: none"> Increase of 11 or more percentage points on the college career acceleration success component of the school grades. OR at least 80% points that school earned on the college career success component of the school grades.
Proof or artifacts to quantify STEM efforts: <i>Data Collected by the STEM School Designation Office</i>			

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