

Framework-at-a-Glance for North Carolina Statewide STEM Education Strategic Plan

Priority	Goals	Recommended Strategies
<p align="center">Increasing our student, teacher and institutional STEM Achievement</p>	<ul style="list-style-type: none"> • Increase student interest in STEM fields and in continuing their education • Increase STEM achievement of K-12 students • Increase the graduation rate of students in STEM programs • Decrease postsecondary remediation rates • Increase the number of teachers prepared and delivering integrated STEM education 	<ol style="list-style-type: none"> 1. <i>Adopt a set of attributes for STEM schools and programs, aligned with 21st Century Skills, to assist public and private organizations to align, coordinate and advance STEM skills for all students.</i> 2. <i>Identify a set of measurable indicators along the education-to-workforce continuum to guide the current and future implementation of the STEM Strategic Plan.</i> 3. <i>Implement a designation for STEM Schools and Programs, aligned with the STEM Attributes, to drive the goals and measures outlined with in the STEM Strategic Plan.</i> 4. <i>Identify high-quality tools and supports- such as rubrics, self-assessments to enable schools, programs, and businesses to advance consistent understanding and application of the adopted STEM attributes</i> 5. <i>Advance professional development for pre-service and in-service educators aligned with the integrated pedagogy and project-based learning methods of STEM teaching and learning.</i>
<p align="center">Gaining and Sustaining Community Understanding and Support for the needs of a knowledge-based economy</p>	<ul style="list-style-type: none"> • Increase community understanding, awareness, and support for the economic challenges • Increase the connections, partnerships, and growth of high-quality programs, schools and tools 	<ol style="list-style-type: none"> 6. <i>Coordinate a public awareness campaign to 100 counties utilizing public/private partnerships, to inspire and engage North Carolina citizens in the economic challenge.</i> 7. <i>Identify and convene leading programs, partners and schools to advance and highlight best practices to every county.</i> 8. <i>Provide a one-stop action-oriented web-based resource for students, teachers, parents, and businesses to access and get involved in STEM learning.</i>
<p align="center">Connecting, Leveraging and Increasing STEM Resources across public and private sectors to improve our citizens and their economic future</p>	<ul style="list-style-type: none"> • Increase returns on public and private investments in STEM education • Align and coordinate the investments of public and private sector partners to scale high-quality programs efficiently 	<ol style="list-style-type: none"> 9. <i>Invest in public and private funds over the next 10 years to scale effective STEM programs, policies and practices throughout every economic development region of North Carolina.</i> 10. <i>Identify and fund a public/private partner for the coordination, evaluation and monitoring of STEM Education programs and initiatives.</i> 11. <i>Incentivize collaboration based on evidence-based policies, programs, and practices that greatly increased the number of students gaining STEM skills and continuing in STEM fields of work.</i> 12. <i>Establish a formal STEM Council to facilitate and coordinate the implementation of North Carolina’s comprehensive STEM Strategic Plan.</i>

