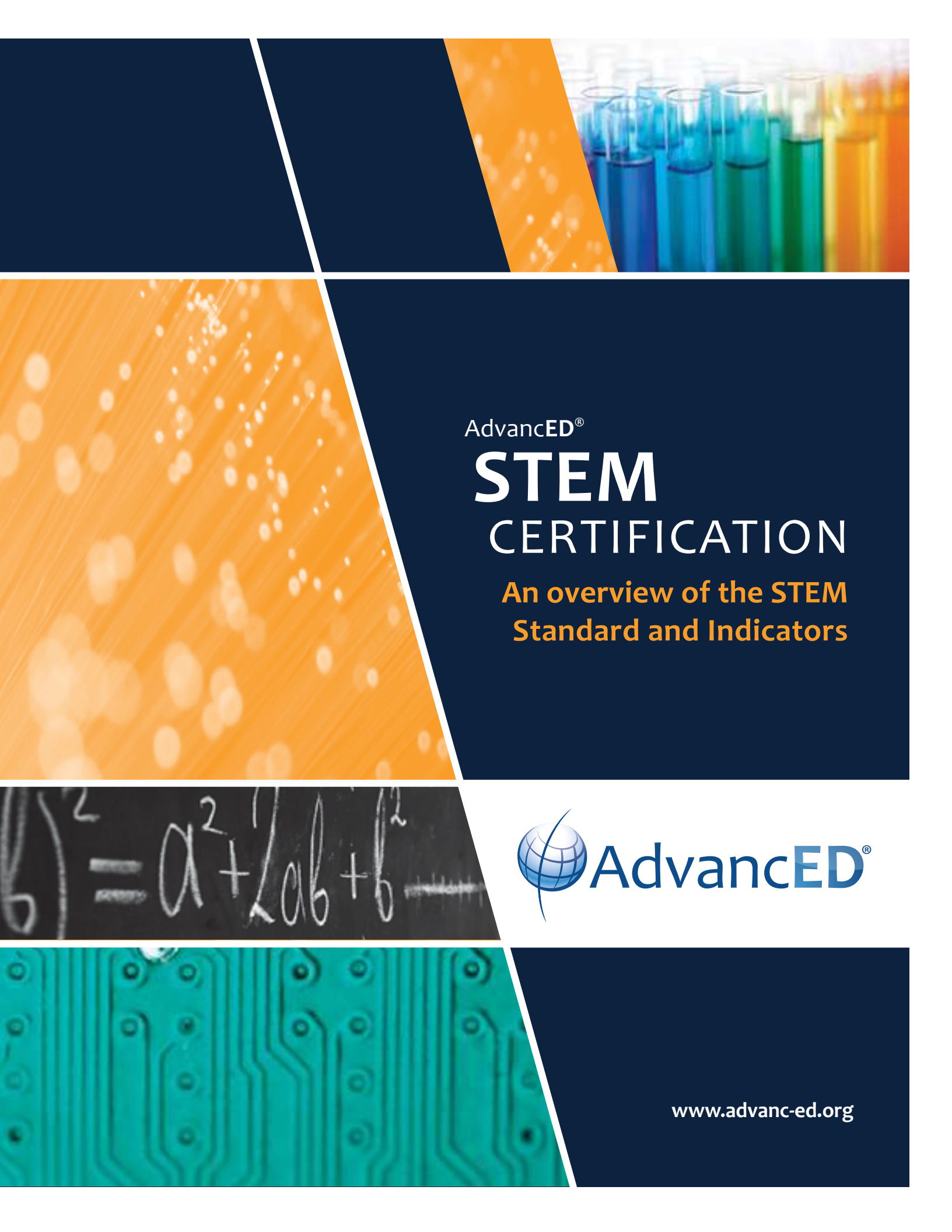




AdvancED®

STEM CERTIFICATION

**An overview of the STEM
Standard and Indicators**



www.advanc-ed.org

AdvancED®

STEM CERTIFICATION

Overview

AdvancED STEM Certification provides a proven, research-based framework and criteria from which to assess and validate the quality, rigor and substance of STEM educational programs. Through this certification protocol, institutions and programs build awareness, increase expectations and demonstrate a commitment and ability to deliver high-quality STEM education.

AdvancED STEM Certification is a mark of STEM distinction and excellence for those institutions that are granted the certification.

AdvancED STEM Certification:

- Combines a data-driven internal review process and an external diagnostic review process to provide educators with detailed findings and a clear roadmap to stimulate and sustain dramatic improvement.
- Demonstrates a school's ongoing commitment and capacity to prepare students for STEM fields of study and work.
- Communicates to postsecondary business and industry leaders that the school is committed to driving higher levels of student achievement.
- Requires STEM school leadership to engage stakeholders in an honest and continual evaluation of policies, strategies and learning conditions in order to achieve desired outcomes.

Contact us to learn more about AdvancED STEM Certification:

STEMcertification@advanc-ed.org

AdvancED STEM Standard and Indicators

STANDARD: STEM students have the skills, knowledge, and thinking strategies that prepare them to be innovative, creative, and systematic problem-solvers in STEM fields of study and work.

STEM LEARNERS

- ST1.1** The STEM school/program supports non-traditional student participation through outreach to groups often underrepresented in STEM program areas.
- ST1.2** Students work independently and collaboratively in an inquiry-based learning environment that encourages finding creative solutions to authentic and complex problems.
- ST1.3** Students are empowered to personalize and self-direct their STEM learning experiences supported by STEM educators who facilitate their learning.
- ST1.4** Students use technology resources to conduct research, demonstrate creative and critical thinking, and communicate and work collaboratively.
- ST1.5** Students demonstrate their learning through performance-based assessments and express their conclusions through elaborated explanations of their thinking.

STEM EDUCATORS

- ST1.6** The interdisciplinary problem-based curriculum includes a focus on real world applications.
- ST1.7** STEM educators collaborate as an interdisciplinary team to plan, implement, and improve integrated STEM learning experiences.
- ST1.8** STEM learning outcomes demonstrate students' STEM literacy necessary for the next level of STEM learning and for post-secondary and workforce readiness.
- ST1.9** STEM teachers and leaders participate in a continuous program of STEM-specific professional learning.

STEM EXPERIENCES

- ST1.10** Community, post-secondary, business/industry partners and/or families actively support and are engaged with teachers and students in the STEM program.
- ST1.11** Students are supported in their STEM learning through adult-world connections and extended day opportunities.

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9115 Westside Parkway
Alpharetta, GA 30009