

Science, Technology, Engineering, and Mathematics (Stem) Education: A Primer



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(Dr. Porter Mitchell)


SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) EDUCATION: A PRIMER



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. The term STEM education refers to teaching and learning in the fields of science, technology, engineering, and mathematics. It typically includes educational activities across all grade levels from pre-school to post-doctorate in both formal (e. g. , classrooms) and informal (e. g. , afterschool programs) settings. Federal policymakers have an active and enduring interest in STEM education and the topic is frequently raised in federal science, education, workforce, national security, and immigration policy debates. For example, more than 200 bills containing the term science education were introduced between the 100th and 110th congresses. The United States is widely believed to perform poorly in STEM education. However, the data paint a complicated picture. By some measures, U. S. students appear to be doing quite well. For example, overall graduate enrollments in science and engineering (S and E) grew 35 over the last decade. Further, S and E enrollments for Hispanic/Latino, American Indian/Alaska Native, and African American students (all of whom are generally underrepresented in S and E) grew by 65, 55, and 50, respectively. On the other hand, concerns remain about persistent academic achievement gaps between various demographic groups, STEM teacher quality, the rankings of U. S. students on international STEM assessments, foreign student enrollments and increased education attainment in other countries, and the ability of the U. S. STEM education system to meet domestic demand for STEM labor. Various attempts to assess the federal STEM education effort have produced different estimates of its scope and scale. Analysts have identified between 105 and 252 STEM education programs or activities at 13 to 15 federal agencies. Annual federal appropriations for STEM education are typically in the range of 2.8 billion to 3.4 billion....

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