The IBE has compiled this list of resources on STEM education to assist curriculum developers, researchers and practitioners. The first section focuses on K-STEM curriculum. Other sections include case studies, guides and tools, policy papers, reports related to STEM education.

The Links section provides the URLs for programmes such as: The Connectory, IBE In-Progress Reflections No. 3, STEM education coalition etc. where their numerous papers and reports may be consulted.

Most of the publications and documents are freely accessible online. Direct access to the materials is indicated by the symbol: @

The steady decline of enrollment of young people in science and the shortage of engineers is cause for concern. More young people need to choose engineering or science as a career and making that choice depends on access to the necessary science, mathematics, technology, and engineering (STEM) curriculum.

(UNESCO Natural Sciences)
**K-12 STEM curriculum**

- Advancing the "E" in K-12 STEM Education

  The National Academies Press, 2012

- The Future of STEM Curriculum and Instructional Design: A Research and Development Agenda for Learning Designers
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  Cathy Buntting, Ministry of Education, 2012

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- Science in The New Zealand Curriculum: Years 5 to 8
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- STEM integration in K-12 education: status, prospects, and an agenda for research
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- Teaching STEM by Design

- Voices from the Past: Messages for a STEM Future
  Kelley, Todd R. Journal of Technology Studies, 2012

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Californians Dedicated to Education Foundation, 2014

@ Sparking Innovation in STEM Education with Technology and Collaboration. A Case Study of the HP Catalyst Initiative

@ Supporting Scotland’s STEM Education and Culture
Science and Engineering Education Advisory Group (SEEAG), 2012

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The Role of Stereotype Threats in Undermining Girls’ and Women’s Performance and Interest in STEM Fields

@ Science, Technology, Engineering, and Mathematics: Equality Narrows the Achievement Gap
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@ Sharing Malaysian Experience in Participation of Girls in Stem Education
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Soo Boon Ng, Ministry of Education Malaysia, UNESCO IBE, 2016

Solving the Equation: The Variables for Women’s Success in Engineering and Computing
The American Association of University Women (AAUW), 2013

@ What Lies Behind Gender Inequality in Education?
PISA in Focus, OECD, 2015

@ Why So Few? Women in Science, Technology, Engineering, and Mathematics
Catherine Hill et al. The American Association of University Women (AAUW), 2010
Guidelines, Manuals, Tools, etc.

From STEM to STEAM: Using Brain-Compatible Strategies to Integrate the Arts

@ Guide de découverte: L’accompagnement en science et technologie à l’école primaire
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B. Schwarzenbacher et al. European Schoolnet (EUN Partnership AISBL), November 2011

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@ A parents’ guide to careers in Science, Technology, Engineering and Mathematics
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Jennie Harland et al. Research Summary, August 2012

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A.C. Rule et al. Journal of Postsecondary Education and Disability, 2011

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Suzanne Straw and Shona Macleod NFER, 2013

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@ Answering the Call to Improve STEM Education: A STEM Teacher Preparation Program
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INTERNATIONAL
UNESCO
UNESCO Science Report: towards 2030
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Links
ACOLA
Australian Council of Learned Academies

The Connectory
Offers a comprehensive collection of STEM opportunities and programs

Global Stem Alliance

STEM education center London

STEM Education Coalition

2016 STEAM/STEM Education Conference

Sciences à l’Ecole

The STEAM Journal

STEM to STEAM

Science, Technology, Engineering and Math: Education for Global Leadership
US Department of Education

FORUM: Girls in Stem

The third issue of the IBE In-Progress Reflections series on Current and Critical issues in the Curriculum and Learning, entitled ‘Sharing Malaysian Experience in participation of Girls in STEM Education,’ seeks to further promote policy and technical dialogue around STEM education focused on girls. Join the conversation!

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