Designing Gender-Inclusive
STEM Classes

Some girls never consider STEM as a potential career. Here are some ways to make your STEM class more gender-inclusive.

Use Inclusive Language
Using gendered language or defaulting to "he" when referring to an unknown person can make girls and non-binary students feel excluded.

Instead, try:
• students
• team
• friends
• folks
• everyone
• y'all

Neutral pronouns:
• they/them
• one

Use Specific Guidelines for Bullying & Harassment
Develop community policies & guidelines together. Agree on consequences for violations & share with everyone. Bullying can impact students’ mental health.

What is SCIENCE?

Include Women's Stories & Histories in Curriculum
Kids still associate science more with men than women. Ensure teaching & coursework include & integrate examples of women & girls, beyond one-offs like International Women's Day. Women of colour are particularly underrepresented.

Expand Your Definition of Science
Science is stereotyped as nerdy & disconnected from the real world. Girls choose not to pursue science because they do not see it connected to the goals they care about. Use activities & assignments that demonstrate how science & math are integral to everyday life.

De-emphasize Innate STEM Abilities
STEM is not “effortless” for all students. Praise everyone for hard work & effort, emphasize mastery goals (building skills) over performance (performing well). Children are more likely to label boys as “really, really smart” than girls.

Expand Academic Evaluation Methods
Multiple choice tends to favor boys’ performance. Make sure your coursework includes open-ended assignments that allow girls to demonstrate understanding.

Small changes can make a difference over the long term. Learn more about gender-based stereotypes and implicit bias, what you can do to combat it, and our research in our white paper series on our website.
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References


About Project PRISM

How can we make STEM a more attractive and meaningful option for adolescent girls and boys alike? Project PRISM (Promoting Rising Inclusion and STEM Motivation) will establish best practices for boosting girls’ belonging in STEM, while bolstering boys’ respect for girls’ abilities. To combat obstacles girls may face in pursuing a STEM career, Project PRISM will test interventions that: (1) change boys’ beliefs about girls via implicit bias training and presenting real evidence that test scores underestimate girls’ abilities, (2) expose girls to successful role models who share their values and preferences, and (3) encourage girls to identify with STEM by recognizing that a STEM career can help them accomplish some of their most cherished goals.

About Engendering Success in STEM (ESS)

Engendering Success in STEM (ESS) is a research partnership focused on evidence-based solutions to foster positive working environments for people in STEM (Science, Technology, Engineering, and Math). We bring together social scientists, STEM experts, and stakeholders in STEM industry and education to use an evidence-based approach to break down barriers people face on their pathway to success. Canada’s Social Sciences and Humanities Research Council reviewed and funded this project.

Resources

Bring Women Experts To Your Classroom:

- Request a Woman Scientist: 500womenscientists.org/request-a-scientist
- Skype a Scientist: skypeascientist.com

Free Female STEM Role Model Posters

- Women You Should Know: womenyoushouldknow.net/downloadable-stem-role-models-posters
- Beyond Curie: beyondcurie.com/march-for-science-posters

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For more information, visit: successinstem.ca