

WOMEN IN STEM



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Ingenium Science and Innovation

LYNN CONWAY

Computer Revolutionary

Conway is a famed pioneer in micro-electronics chip design. Known as Very-Large-Scale Integration, her work in the 1970s formed the foundation of modern digital technology systems.

Ingenium is committed to encouraging and empowering women and girls in science, technology, engineering, and math. Learn more at: ingeniumcanada.org/womeninstem/

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CONCEPTS AND CONNECTIONS

Gender identification reflects how a person wants to express gender, whereas sexual orientation refers to sexual or romantic interest. In science, there are few gender and sexual minorities. As a computer scientist and transwoman, **Dr. Lynn Conway** is an advocate for greater inclusion in science. *

Did you know?

A concept called superposition in Quantum computing refers to a value not being binary (i.e., 1 or 0) but instead the value has a fluid value or identity, like gender.

Grades 4-6	Grades 6-8	Grades 9+
<p><i>Beyond the Binary:</i> Gender identity is the personal sense of one's own gender. Gender identity can be the same or different from sex. Each culture has a set of gender categories (often more than two) and people may identify with more than one gender or no specific gender.</p> <p>How is gender different than sex?</p>	<p><i>Beyond the Binary:</i> Gender identity is the personal sense of one's own gender. Gender identity can be the same or different from sex. Each culture has a set of gender categories (often more than two) and people may identify with more than one gender or no specific gender.</p> <p>How is gender different than sex?</p> <p>How might gender identification or sexual orientation impact participation in STEM?</p>	<p><i>Beyond the Binary:</i> Gender identity is the personal sense of one's own gender. Gender identity can be the same or different from sex. Each culture has a set of gender categories (often more than two) and people may identify with more than one gender or no specific gender.</p> <p>How is gender different than sex?</p> <p>How might gender identification or sexual orientation impact recruitment and retention of people in STEM?</p>

* References:

Yoder, J. B., & Mattheis, A. (2016). Queer in STEM: Workplace experiences reported in a national survey of LGBTQA individuals in science, technology, engineering, and mathematics careers. *Journal of Homosexuality*, 63(1), 1-27.