

UBC Young Women for STEM Education Items

UBC Young Women for STEM is a student-led club at the University of British Columbia. Our team consists of female-identifying students studying a variety of STEM fields at both the undergraduate and graduate level.

Club Mission: To raise awareness about the lack of representation of women in STEM fields, the gender gap, as well as other barriers faced by women, specifically due to assumptions about gender roles and expectations.

High School Presentations:

Through our research, we have learned that facilitating discussions and conversation regarding these issues among high school and elementary school students, while providing young women with representations of female scientists and engineers, can play an important role in encouraging more inclusive academic and professional environments in the future. As such, we have designed our outreach based on representation and education, targeted at younger audiences (grades 8-12). The details of our presentations include:

- Presentations are typically 45 minutes long (or up to a full class block depending on the preference of the teacher)
- Presentations consist of individual presentations by 3 or 4 group members about their fields of study, their path to UBC and STEM, and their experiences as women in their respective work environments. Our group has members from a variety of disciplines including Biology, Chemistry, Civil Engineering, Microbiology, Astronomy, and Neuroscience.
- Presentations will also include information about the pay gap.
- Demonstrations that highlight interesting and useful scientific concepts. Each demonstration will have a worksheet for students to complete. The following is our list of experiments:
 - Steel Wool and Battery
 - DNA Extraction
 - PTC Taste Test
 - Water Density
 - Cabbage pH
 - Where is my baby?

Our members have been assigned demonstrations in groups, and each experiment will be done depending on the presenting group. All supplies will be provided by the club.

- For grades 11 and 12, we will conclude with a Q&A period about university life.

We are planning to do presentations during our university's reading break, between **February 20-24, 2023**.