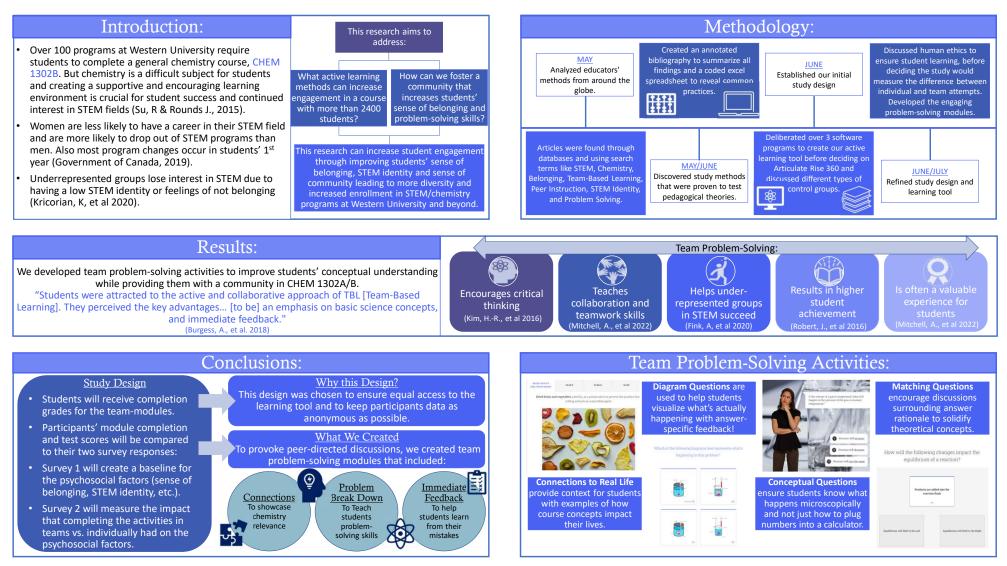


Enhancing Chemistry Education through Team-Based Active Learning Strategies

Katie Helka

Western University, Undergraduate Student Research Internship (USRI) 2022



References

Burgess, A.; Roberts, C.; Ayton, T.; Mellis, C. Implementation of Modified Team-Based Learning within a Problem Based Learning Medical Curriculum: A Focus Group Study. *BMC Med. Educ.* 2018, *18* (1), 74. https://doi.org/10.1186/s12909-018-1172-8. Fink, A.; Frey, R. F.; Solomon, E. D. Belonging in General Chemistry Predicts First-Year Undergraduates' Performance and Attrition. *Chem. Educ. Res. Pract.* 2020, *21* (4), 1042–1062. https://doi.org/10.1039/D0RP00053A. Government of Canada, S. C. Perisstence and representation of women in STEM First-Year Undergraduates' Performance of Korean Nursing Students. *Nurse Educ. Today* 2016, *38*, 115–118. https://doi.org/10.1016/j.nedt.2015.12.003. Kricorian, K.; Seu, M.; Lopez, D.; Ureta, E.; Equils, O. Factors Influencing Participation of Underrepresented Students in STEM Fields: Matched Mentors and Mindests. *Int. J. STEM Educ.* 2020, *7*(1), 10186/s40594-00219-2. Mitchell, A.; Grace Vaughan, A. Implementing Team-Based Learning: Findings From a Database Class. *J. Inf. Technol. Educ. Innov. Pract.* 2022, *21*, 001–023. https://doi.org/10.1016/j.nedt.2015-22. Mitchell, A.; Grace Vaughan, A. Implementing Team-Based Classes and Peer-Led Team Learning in General Chemistry J. *Chem. Educ.* 2016, *39*, 112, 1939–1998. https://doi.org/10.1012/j.acs.jchemed.6b00395. Su, R.; Rounds, J. All STEM Fields Are Not Created Equal: People and Things Interests Explain General Disparities across STEM Fields. *Front. Psychol.* 2015, *6*. https://doi.org/10.3389/fpsyg.2015.00189.

Acknowledgements:

I would like to thank the Department of Chemistry, the USRI Office, Ken Meadows and Zoe Levi without whom this project would not be what it is today. I would also like to specifically thank my supervisor, Dr. Christina Booker who guided me through this project and provided me with the resources, best practices, and advice that allowed me to complete and grow this project into what it is.