













- [17] L. S. Nadelson, J. Scaggs, C. Sheffield, O. M. McDougal, "Integration of video-based demonstrations to prepare students for the organic chemistry laboratory," *Journal of Science Education and Technology.*, 2015, pp. 476-483.
- [18] D. Zhang, L. Zhou, R. O. Briggs, "Nunamaker Jr JF. Instructional video in e-learning: Assessing the impact of interactive video on learning effectiveness," *Information & Management.*, 2006, pp. 15-27.
- [19] C. F. Herreid, N. A. Schiller, "Case studies and the flipped classroom," *Journal of College Science Teaching.*, 2013, pp. 62-66.
- [20] K. W. Ruddick, "Improving chemical education from high school to college using a more hands-on approach," *The University of Memphis.*, 2012.
- [21] J. Tierney, M. Bodek, S. Fredricks, E. Dudkin, K. Kistler, "Using web-based video as an assessment tool for student performance in organic chemistry," *Journal of Chemical Education.*, 2014, pp. 982-986.
- [22] E. Goldstein, "Cognitive psychology: Connecting mind, research and everyday experience," *Nelson Education.*, 2010.
- [23] D. M. Misch, "McKeachie's Teaching Tips: Strategies, Research, and Theory for College and University Teachers," *Wilbert McKeachie, Marilla Svinicki (Eds.).*, Wadsworth Publishing, 2011.
- [24] S. Williams, "Using video clips to stimulate discussion," *Faculty Focus.*, 2007, pp. 600857-600851.
- [25] N. I. Scagnoli, A. McKinney, J. Moore-Reynen, "Video lectures in eLearning," *In Handbook of Research on Innovative Technology Integration in Higher Education.*, IGI Global, 2015, pp. 115-134.
- [26] B. A. Bottge, M. Heinrichs, S. Y. Chan, Z. D. Mehta, E. Watson, "Effects of video-based and applied problems on the procedural math skills of average-and low-achieving adolescents," *Journal of Special Education Technology.*, 2003, pp. 5-22.
- [27] R. B. Burns, "Study and stress among first year overseas students in an Australian university," *Higher Education Research and Development.*, 1991, pp. 61-77.
- [28] J. M. Fautch, "The flipped classroom for teaching organic chemistry in small classes: Is it effective?," *Chemistry Education Research and Practice.*, 2015, pp. 179-186.
- [29] J. Cain, E. P. Black, J. Rohr, "An audience response system strategy to improve student motivation, attention, and feedback," *American Journal of Pharmaceutical Education.*, 2009, pp. 21.
- [30] M. Russell, R. Carey, G. Kleiman, J. D. Venable, "Face-to-face and online professional development for mathematics teachers: A comparative study," *Journal of Asynchronous Learning Networks.*, 2009, pp. 71-87.