

---

## Active Learning in Online Environments

---

**Angie Hodge**, Northern Arizona University, [angie.hodge@nau.edu](mailto:angie.hodge@nau.edu)

**Cindy S. York**, Northern Illinois University, [cindy.york@gmail.com](mailto:cindy.york@gmail.com)

The Research Action Cluster on active learning has been a great success in making mathematics classrooms across the nation more engaging. In this session, we aimed to examine if a similar movement could happen in online learning environments. Many master's programs for practicing mathematics teachers are held in these online environments (for both content and pedagogy courses). We wished to work on transforming secondary mathematics education by examining these online environments. This session focused on the following discussion questions: (a) how can we make more active online learning environments, (b) what work has been done to examine online learning environments for mathematics education, and (c) what does active learning look like in an online learning environment for mathematics teachers?

**Watch the presentation:** <https://youtu.be/n548avFsh6I>

**Discussion questions:**

- What challenges exist in engaging students in an online environment?
- What advantages are there to engaging students in an online environment?
- How are each of these challenges/advantages unique to learning either mathematics or mathematics education?