Active Learning in Calculus: Clickers and Worksheets

Matt Charnley
Rutgers University – New Brunswick
Department of Mathematics

Course Format

- Lectures of 75-105 students
- Each lecture is paired with 3 recitations/workshops
- Workshops involve group problem solving
- Lectures are mostly focused on content delivery

Clicker Questions

- Multiple choice questions to break up lecture
- Check for understanding
- Gets students thinking and solving problems
- Part of a participation grade

Worksheets

- Problems for students to work with neighbors in class
- Break up the lecture and encourage discussion
- Discuss answers afterwards
- Use pre-class videos to make time

Online Format

- Zoom Polls and Canvas Quizzes
- Worksheets and Breakout Rooms were less common
- Practice Problems at the end of class
- Time was more of an issue online

Contact: charnley@math.rutgers.edu
Hill 320, Busch Campus
https://tinyurl.com/wdjsdvc