

1154-A1-2709      **Melinda Schulteis\*** ([melinda.schulteis@cui.edu](mailto:melinda.schulteis@cui.edu)), 1530 Concordia West, Irvine, CA 92612.  
*An Active Learning Approach to Abstract Algebra.* Preliminary report.

Would you like to hear your math majors say, “Wow, we just came up with the definition of a ring... all on our own!”? This talk will showcase a Concept Attainment Lesson, a type of active learning teaching model, which helps students who have previously covered group theory, be able to successfully come up with the definition of a ring... all on their own. You will be shown how to revisit the activity to let students also create the definition of an integral domain and a field. Additionally, the talk will include ideas and examples from active learning worksheets that accompany the lesson and have students experiment with, and extend, the definitions for a deeper understanding of the concepts. (Received September 17, 2019)