

1135-O5-1835      **Mark Kozek\*** ([mkozek@whittier.edu](mailto:mkozek@whittier.edu)), Department of Mathematics, Whittier College, Whittier, CA 90608-0634. *Using infographics to visualize number theory*. Preliminary report.

In this talk we reflect on the use of infographics as a tool for students to visualize the underlying mathematical structure of an elementary number theory course.

Because of mathematics' inherent abstractness, its structure is hard to visualize, yet understanding its structure is a desired learning outcome in most of our courses. In our undergraduate number theory course, we had the students attempt to visualize its mathematical structure by constructing infographics to represent it. After each lecture, one student created a daily infographic that included every axiom, definition and theorem used in the day's lecture. At the end of the semester, the students combined all their daily infographics into a composite infographic for the entire number theory course. Our talk is a reflection on this pedagogical experience. (Received September 25, 2017)