

1125-C1-2710 **Feryal Alayont***, Grand Valley State University, Department of Mathematics, 1 Campus Dr.,
Allendale, MI 49401. *Guided Discovery Based Learning in Discrete Mathematics via Pre&In-class
Activities.*

The topics in a discrete mathematics course directly tie to a wealth of real-life applications that can be used to motivate student interest in these topics. Asking students questions related to these applications in a pre-class activity before a topic is discussed in class provides a great hook for the topic. In the classroom, students then build on their initial work by pondering further related questions in the in-class activity. These questions are designed to guide them to discover the ideas of the topic through individual and/or group work. In this presentation, I will describe the teaching structure and provide examples of the activities from the course along with student feedback on the course. (Received September 20, 2016)