

1077-D5-2604 **Phil Gustafson*** (pgustafs@coloradomesa.edu), Colorado Mesa University, Mathematics
Department, Grand Junction, CO 81501. *Student Voice Waves: Investigations using Calculus and
Freeware*. Preliminary report.

Modeling and analyzing student generated sound waves is a great way for students to gain a better appreciation for applications of integration and series expansions. In this presentation we share a classroom activity that makes use of the freeware Audacity and FreeMat to capture and display student voice waves as well as to analyze their frequency content. (Received September 22, 2011)