

1086-D1-2370 **Michael Starbird***, starbird@mail.utexas.edu. *Speaking and Thinking*. Preliminary report.

When students speak about mathematics extemporaneously, they are perforce directly revealing the depth and clarity of their understanding. Creating a safe environment in the classroom allows students to show the authentic status of their knowledge and of their intuition about the mathematical theme being considered. At that moment there is complete attention on the opportunity for guidance. No moment of attention is more focused than the moment when a student is formulating ideas as part of the speaking and thinking process. Speaking regularly in class with the aim of conveying specific ideas to other students who may not know them is a great way for the student to learn through teaching. (Received September 25, 2012)