

1077-D5-1700      **Jennifer Bergner\*** ([jabergner@salisbury.edu](mailto:jabergner@salisbury.edu)). *Using Geometer's Sketch Pad to examine whether the SSA condition in Euclidean geometry is always ambiguous.*

In this presentation I will share a Geometer's Sketch Pad activity that uses the dynamic capabilities of the software to explore the situation in which two triangles have two sides of one congruent to two sides of the other, and a non-included angle of one congruent to a corresponding angle of the other (the "ambiguous" SSA condition). The students use GSP to examine and conjecture when this is not an ambiguous condition and why. This activity uses several nice features of GSP such as tables, sliders, and the calculator and can also be extended to explore some of the other standard congruence theorems from Euclidean geometry. (Received September 20, 2011)