

Name: _____

Date: _____ Period: _____

Triangle Congruency

Go to <http://tube.geogebra.org/student/m116756>

Click on the box of the combination of angles and sides that you want to explore. **Red dots** indicate side lengths or angle that can be adjusted. Adjust the sides and angles until you form a triangle. If the triangle turns green, then it is congruent to the triangle on the left. If the triangle formed turns red, then it is not congruent to the triangle on the left.

The goal is to see which combinations are enough to prove that two triangles are congruent. If only a green triangle is formed, then the combination will prove that two triangles are congruent. If a red triangle is formed, then the combination will not be enough to prove that two triangles are congruent.

	What does it stand for?	Draw what sides and angles are fixed.	Could you make a congruent (green) triangle?	Could you make a non-congruent (red) triangle?	If you formed a non-congruent (red) triangle, draw it.
SSA					
SSS					
SAS					
AAS					
ASA					
AAA					

Which combinations are enough to prove that two triangles are congruent?