Consta	Name				
Geometry Name Triangle Congruence Criteria Exploration Guide					
This summary worksheet goes wit	h the GeoGebra book: <i>Triangle Con</i>	gruence Criteria Exploration.			
PAGE 1 Big Idea					
Two triangles are congruent when	you can map one onto the other u	sing,			
, and/o	r Since ri	Since rigid motions preserve			
and _	, <b>C</b> orresp	onding Parts of Congruent			
Triangles are C	(CPCTC).				
PAGE 2 Big Idea					
The converse of CPCTC states that if all 6 corresponding parts of two triangles are congruent, then the					
triangles must be	·				
PAGE 3 Big Idea					
_	"shortcut" is when you can show to	vo triangles are congruent			
	•				
	that each of the following is <b>not</b> a t				
S	SS	SA (opposite)			
	33	<b>SA</b> (opposite)			
Α	AA(A)	<b>SA</b> (adjacent)			

## **PAGE 4 Summary**

SSS	is	/	is not	a triangle congruence shortcut
SAS	is	/	is not	a triangle congruence shortcut
SSA	is	/	is not	a triangle congruence shortcut

HL, which stands for	, is a special case of	for right
triangles which <u>does</u> guarantee that the two right trian	ngles will be congruent.	

WAIT HERE fo class discussion. While you are waiting, you can practice the "recipe" for mapping one congruent triangle onto another by working with pairs of congruent triangles on this page (Page 4).

## **PAGE 5 Summary**

ASA is / is not a triangle congruence shortcut
SAA is / is not a triangle congruence shortcut

WAIT HERE fo class discussion. While you are waiting, you can practice the "recipe" for mapping one congruent triangle onto another by working with pairs of congruent triangles on this page (Page 5).

## **ONE Last Question!**

FINALLY, why don't we need to consider any 4- or 5-letter shortcuts?