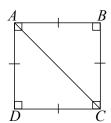
□ DO	NOW – Geometry Regents Lomac 2014-2015 Date	<u>10/23</u>	due <u>10/24</u>	Application: Congrue and Rigid Mo	
` '	escribe what congruence means and draw a picture illustrates two figures that are congruent.	Name SLO:	I can perforn transformation straightedge sequence re	n a sequence/composition ons on a given figure using and compass, explain how sults in the final image, and ation for the .	a v the
<u></u> (1)	Corresponding parts				
	Correspondence can be thought of as a "pairing" of pairs a few everyday objects that come in pairs.	points, se	egments, or an	gles between two shapes.	
	(a) Are pairs of everyday objects always identical/objects. Think about a pair of shoes. What part of the result is a pair of shoes. Lace Sole Right Shoe: (c) The right lace does/does not have to be exactly the pair of shoes.	ight shoe	corresponds t	ngue Velc	
	(d) Like the shoes, corresponding parts of figures they always will be when a figure undergoes a rigid tra			•	
(2) transparen cies, dry erase markers, erasers	Identifying corresponding parts You may use trans In the figure below, the left figure has been mapped Point corresponds to point Point corresponds to point Point corresponds to point Segment corresponds to segment Segment corresponds to segment Angle corresponds to angle	d to the o		·	nd point P

(3)	Reading and writing function notation for	transformations				
	(a)The triangles in the figure below are co List the corresponding sides and angles.					
	Sides:B		→ , →			
			because			
	E A'	B""	C' B'			
	(i) Describe the transformations _					
	(ii) State the composition of transformations in function notation					
	(iv) ☐ List each set of corresponding → →	y sides →→	. -> ->			
	(v) ☐ List each set of corresponding					
	→ ,	>>				
	(vi) Circle the correct congruence	statement and explain why it is	the correct statement.			
	$\triangle CAB \cong \triangle A"B"C"$	$\triangle ABC \cong \triangle B"A"C"$	$\triangle CBA \cong \triangle C"B"A"$			
	All of the triangles in the diagram below are composition of transformations that will map to composition must use the other 2 triangles in	the triangle you chose onto ano	ther triangle in the figure. Your			
	A Des	scribe:				
	Z M					
	B C					
	Cor	nposition in function notation:				

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	T 1			NEL

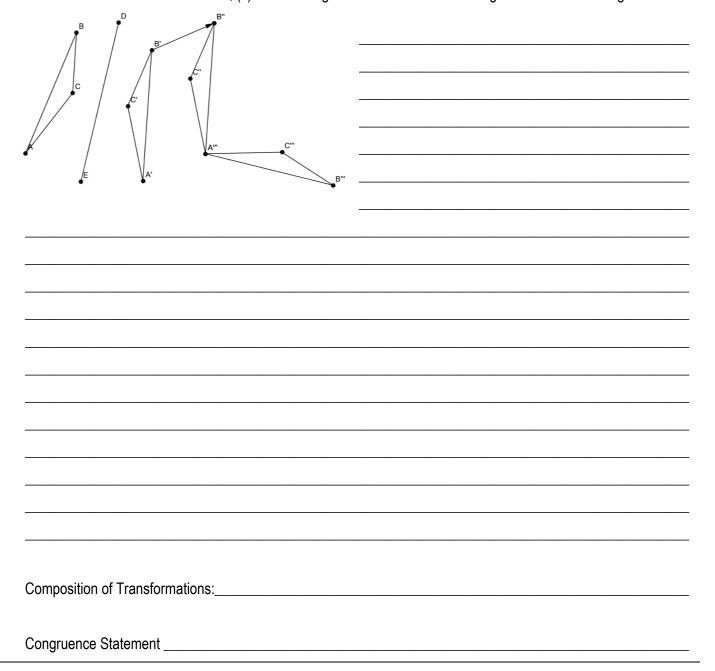
In square ABCD, diagonal AC is drawn. The triangles are reflections.



Write a congruence statement for the triangles.

Write the function notation for the reflection.

(5) **Homework** For the diagram below, (a) Describe the composition of transformations, (b) Write the composition of transformations in function notation, (c) Write a congruence statement for the original and the final image.



C B X	