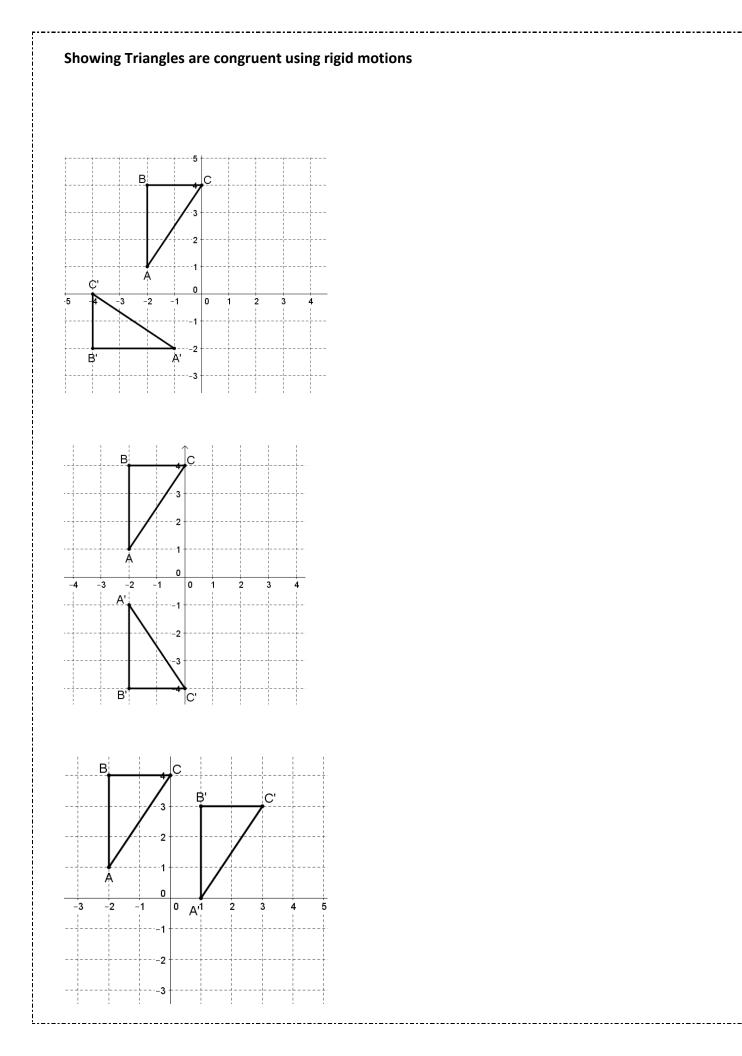
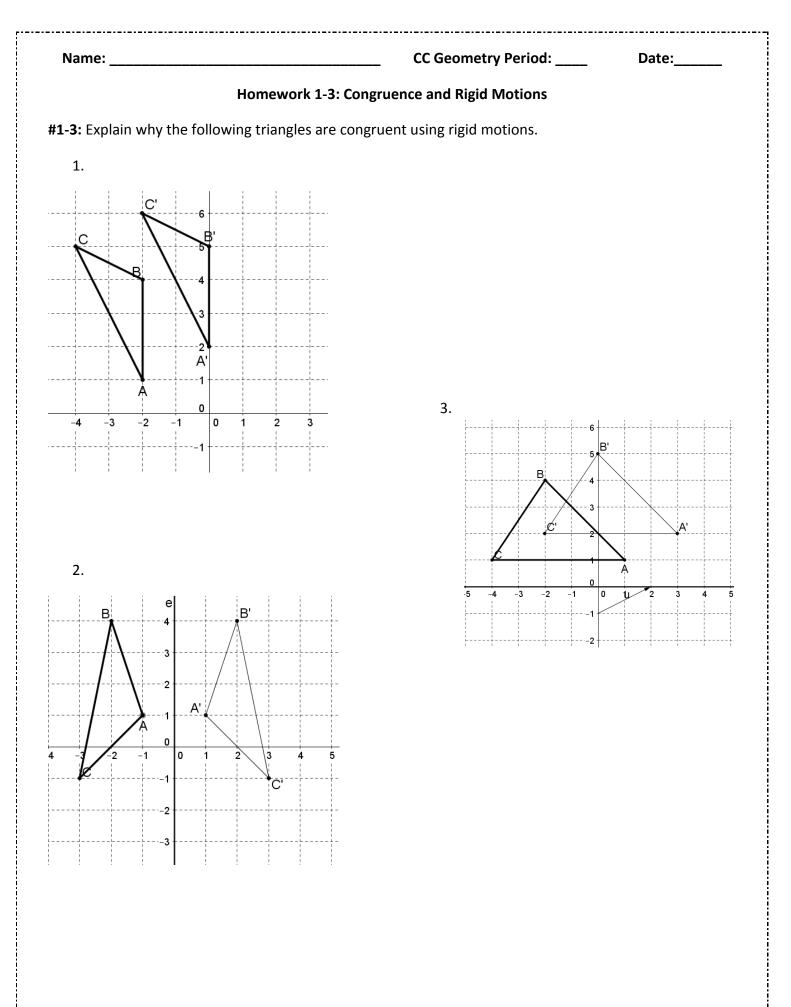
CONGRUENT TRIANGLES & RIGID MOTIONS UNIT 1 LESSON 2

INCLUDES:

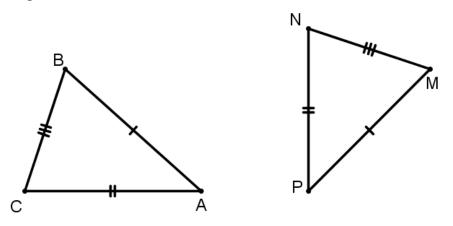
DEFINITION OF CONGRUENT GUIDED NOTES W/EXAMPLES RIGID MOTION STATEMENT HOMEWORK ASSIGNMENT ANSWER KEY

1-3: Congruent Triangles & Rigid Motions By the end of the period, I can understand what a rigid motion is in the coordinate plane. Do Now: Based on your knowledge, write a description of the following Transformations. Translation: Reflection Rotation Rotation Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles A Image: Colspan="2">Image: Colspan="2" Colspan="2">Image: Colspan="2" Colspa	Name:			
Do Now: Based on your knowledge, write a description of the following Transformations. Translation: Reflection Rotation Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles A A C		1-3: Congruen	t Triangles & Rigid Motions	
Translation: Reflection Rotation Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles A <	By the end of the pe	riod, I can understand wh	nat a rigid motion is in the c	coordinate plane.
Reflection Rotation Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles $\int_{V_{int}}^{V_{int}} \int_{V_{int}}^{V_{int}} \int_{V_{i$	Do Now: Based on ye	our knowledge, write a de	escription of the following T	ransformations.
Rotation Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles A A A A A A A A A A	Translation:			
Definition of Congruent Shapes: Example: Name the congruent sides and angles of the following triangles $ \begin{array}{c} $	Reflection			
Example: Name the congruent sides and angles of the following triangles A A C C F C	Rotation			
Example: Name the congruent sides and angles of the following triangles A A C				
$ \begin{array}{c} A \\ \hline \\$	Definition of Congrue	ent Shapes:		
$ \begin{array}{c} A \\ \hline \\$				
$ \begin{array}{c} A \\ \hline \\$				
	Example: Name the o	congruent sides and angle	es of the following triangle	S
	A	F	*	
		D	À	P

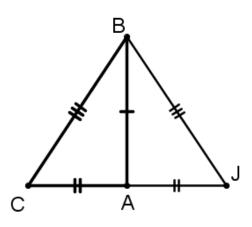




4. Write out all the congruent sides and angles and write out a congruence statement for the triangles.



5. Write out all the congruent sides and angles and then write out a congruence statement for the triangles.

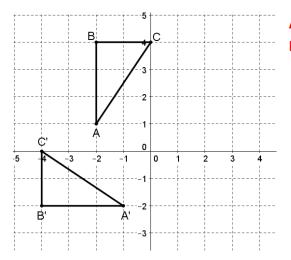


Name:		Date:
1-3: Congru	uent Triangles & Rigid Motions ANSWERS	
y the end of the period, I can unders	stand what a rigid motion is in the coordina	ate plane.
Do Now: Based on your knowledge, w	write a description of the following Transform	mations.
Translation: SLIDE		
Reflection: FLIP		
Rotation: TURN		
Definition of Congruent Shapes: Shap	pes that are the same size in all aspects (An	gles and Sides
		-
Example: Name the congruent sides a		
Example: Name the congruent sides a Stress the Importance of Order of the A		
Stress the Importance of Order of the A	e letters!	
Stress the Importance of Order of the $\int_{B}^{A} \int_{D}^{F} \int_{D}^$	e letters!	E

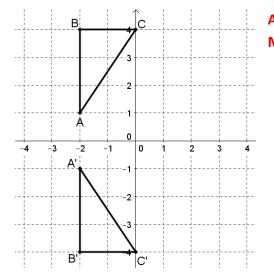


A ______ is a Rigid Motion and In a rigid motion size is preserved!

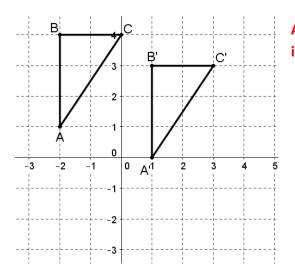
USE PATTY PAPER TO HAVE STUDENTS UNDERSTAND WHY THESE ARE CONGRUENT



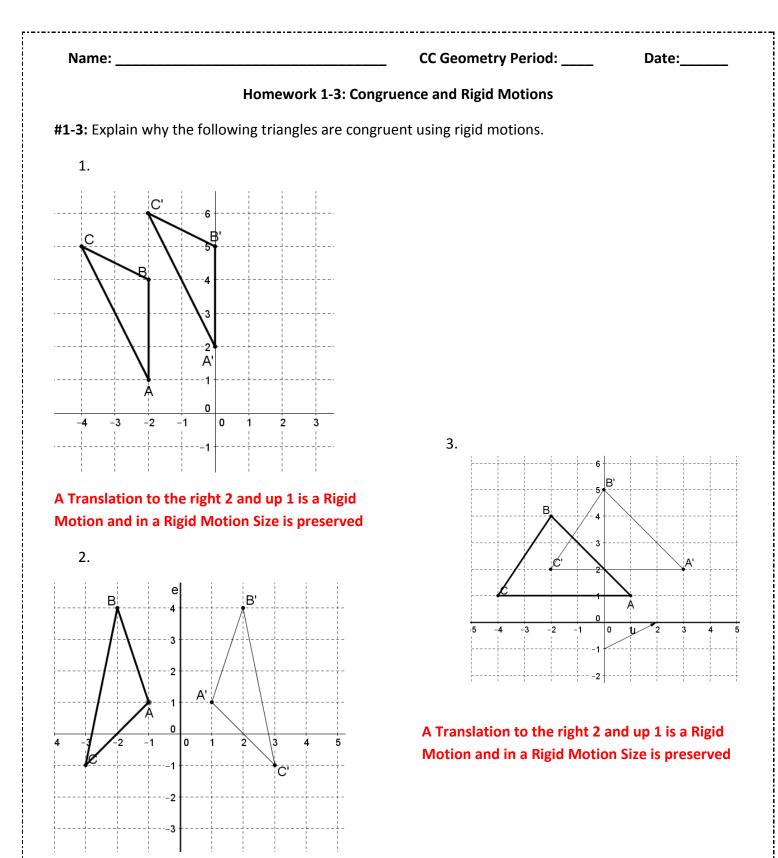
A Rotation of 90° Counter Clockwise around the origin is a Rigid Motion and in a Rigid Motion Size is preserved



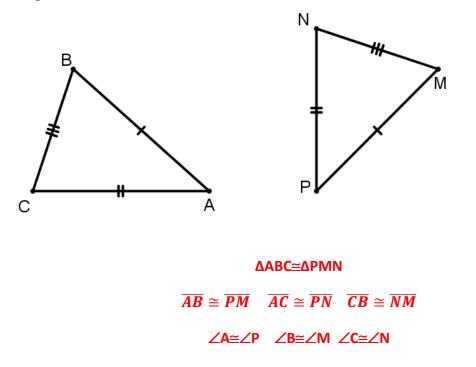
A Reflection over the x-axis is a Rigid Motion and in a Rigid Motion Size is preserved



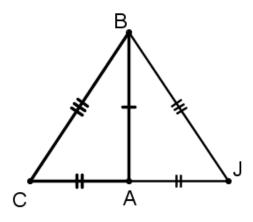
A Translation to the right 3 and down 1 is a Rigid Motion and in a Rigid Motion Size is preserved



A Reflection over the y-axis is a Rigid Motion and in a Rigid Motion Size is preserved 4. Write out all the congruent sides and angles and write out a congruence statement for the triangles.



5. Write out all the congruent sides and angles and then write out a congruence statement for the triangles.



ΔΑΒϹ≅ΔΑΒͿ

 $\overline{AB} \cong \overline{AB} \quad \overline{AC} \cong \overline{AJ} \quad \overline{CB} \cong \overline{JB}$

∠C≅∠J ∠BAC≅∠BAJ ∠ABC≅∠ABJ