Geometry Regents Lomac 2015-2016

Geome	try Regents Lomac 20	15-2016	Date <u>10/5</u>	due <u>10/6</u>	Constructing Lines of Reflection 2.3R			
DO 1	₩OW – On the back of	this packet	Nar L	ne O: I can c image reflect	onstruct a line of reflection between an and its preimage and formally define ion .			
(1) paper circle 2.2	Revisiting Circles fr (a) For the circles connecting a preimag a diameter of the circl the line of reflection, A know?	om lesson 2.2: at right, each has a segm e point to an image point e. Which diagram is show \A' or BB'? How do you	and ving					
□ (2) N10	Reflections notes Complete the reflection notes on page N10							
	r	()				
(3)	Reflections by definition (a) Below is figure ABCD and its reflection. From the notes, we know that the line of reflection is the							
			C'	D'	B'			

(b) Choose any point on the perpendicular bisector you constructed and label it P. Construct circle P with radius \overline{PB} . Draw $\overline{BB'}$. Is the diameter of circle P a segment of the perpendicular bisector (line of reflection) of $\overline{BB'}$? _. Do points B and B' lie on circle P? _____ Write the reflection function: _

1

(4)	Constructing Lines of Reflection Construct the line of a field of the line of the	of reflection for each pair. $\Box (b)$ $A' = E' = O'$ B' / O' $A' = B' / O'$ $A' = B' / O'$				
	Write the reflection function: Write the reflection function: Choose any point on each perpendicular bisector you constructed and label it P. Construct circle P so that it passes through a point on the preimage. Does the circle also pass through the corresponding point on the image?					
(5)	(a) (b) because Exit Ticket ON THE LAST PAGE					
(6)	Homework \Box (1) Construct the line of reflection for each figure	<pre>N</pre>				

(2) Choose any point on each perpendicular bisector you constructed and label it P. Construct circle P so that it passes through a point on the preimage. Does the circle also pass through the corresponding point on the image?

(4) Homework Cont, compass highlighters Homework (3) Draw points S, T, U, V, W, and X so that all are coplanar except for point X.

(4) Draw acute angle CUB adjacent to right angle CUP.

(Remember: each letter can only be used once to represent one point in a diagram.)

(5) Describe what it means when two or more points or figures "coincide".



(4) cont, compass highligh- ters	Homework					
	(7) Construct a regular hexagon with side lengths equal to twice the length of a side of this square:					
	(Use the extra segment length to help you determine a length					
	equal to twice the length of a side of the square.)					

 Exit Ticket
 Name_____
 Date _____
 Per_____
 2.3R

 (1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:
 2.3R

(a) Draw any points Q and Q'. Construct the line of reflection that maps Q to Q' and label it *m*.

(b) Write the function notation for the reflection you did in part (a).

(b) Draw any point R on the line *m*. Describe where R' is located when point R is reflected across line *m*.

DO NOW	Name	Date	Per
--------	------	------	-----

2.3R

(1) Which pair of figures shows a reflection, lightning, moon, or trapezoid? How do you know it is a reflection?



(2) Construct the perpendicular bisector of AC.



(3) What does "coincide" mean from your notes? What about this cartoon is supposed to make people smile?

