DO NOW – Geometry Regents Lomac 2014-2015 Date	<u>9/16</u> du	e <u>9/17</u> Constructing Reflected Triangles 1.1b
(1) Name, Group Number, Lesson Number, Date		
 (2) Copy and complete each sentence below: (a) The line assumption states that (b) Equilateral means (c) A radius is 	Name SLO:	Per I can construct reflected triangles and explain how the compass makes this possible.
(3) Put the DO NOW/EXIT TICKET packet away.		
 □ (1) Notes: □ (a) Obtain "1 Construction Notes Page 1 & 2", a descriptions, scissors, tape or glue □ (b) Cut out the column of descriptions and match the top should be "distance/length assumptions, scissors, tape or glue □ (c) Listen and check your work as we go over it as □ (d) Glue or tape down the descriptions for page 1 □ (e) Repeat b through d for column 2 of description 	scriptions nem with t ption") a class s and side	a page, scissors, and tape or glue the diagrams and terms on page two of the notes the 2 of the notes
☐ (2) Constructing Reflected Triangles ☐ (a) Use the segments below to construct triangle A ▲ C ● C	BC so tha	at point C is above \overline{AB} . \overline{AB} is drawn for you.

 \Box (b)Now use the same segments to construct triangle ABC below segment \overline{AB} .

(c) Are the two triangles you constructed in (a) and (b) the same? Why do you think they are or are not?

(3)	Constructing Reflected Triangles again (a) Use the segment lengths below to construct triangle DEF so that point F is to the left of \overline{DE} . \overline{DE} is drawn for you.				
compass					
	D F E		F		
		D			
		T			
	\Box (b) Now use the same segment lengths to construct triangle DEF to the right of segment \overline{DE} .				
	(c) Are the two triangles you constructed in #5 the same? Why do you think they are or are not?				
(4) compass	Construct triangles given the lengths below.		••		
	(a) Triangle GHI	• (b) Triangle IKI	- <u>-</u>		
			K		
	G H G	K	L		

Were you able to construct triangle GHI? _____ If so, describe the triangle. If not, describe why not. Were you able to construct triangle JKL? ______ If so, describe the triangle. If not, describe why not.

Exit Ticket (5) compass Describe how to construct a triangle. You may include skettches and you may complete the statements below if it helps you to explain. To construct a triangle, I have to start with a ______. Then I have to the distance between the _____ of a second side length and construct a _____ centered at an _____. I need to repeat _____ for the third side. I know the location for the third point of the triangle because it is where the ______ (6) Homework: (1) Use your notes like flashcards. Cover everything but the diagrams and guess the term. Then cover the diagram and term and use the descriptions to guess the term. Then cover everything except the term and picture the diagram and try to describe the term. (2) At right, pairs of circles are drawn. (#8 from classwork will help you with this problem. (a) Label the circles on the left with center A and radius AB and the circles on the right with center C and radius CD. A,B,C, and D should be collinear (b) Describe the conditions (in terms of distances AB, CD and AC) do the circles have i) One point in common? ii) No points in common? iii) Two points in common? iv) More than 2 points in common? Why?