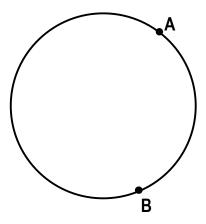
Geomet	try Regents Lomac 2015-2016 Date	<u>10/2</u> dı	ue <u>10/5</u>	Circles and Lines	of Reflection 2.2F
	NOW – On the back of this packet	Nama			
		Name LO:		scribe the relationship licular bisectors, and r	•
(1) paper circle 2.2	Folding Circles: (a) Obtain the "Paper Circle 2.2" page (b) On the circle, find point A and point A'. Fold the paper. With the paper creased, hold it up to the light. Unfold the paper and use a straightedge and pencil to (c) On the circle, find point B and point B'. Fold the paper. With the paper creased, hold it up to the light. Unfold the paper and use a straightedge and pencil to (d) Repeat the steps in part (b) and (c) above with (e) You have traced 4 creases and should have 4 I These 4 line segments with endpoints on the circle all Segments with endpoints on the circle that pass through	How mu trace the paper so How mu trace the points C ine segments through the control of the cont	ch of the of that point ch of the of	circle do you see? ou made. It B' coincides with point circle do you see? ou made. It D and D'. It connect points that are	nt B and crease the e on the circle. of the circle.
(2) circle reflection 2.2	Folding Circles take 2: (a) Obtain the "Circle Reflection 2.2" page. (b) The first circle has points A and A' marked. Fold the paper. Unfold the paper and use a straightedge and crease intersects the circle and label them D and R. \overline{L} . (c) Use a straightedge to connect A' to point A. Ma of A across also know that $\overline{A'M}$ is a reflection of across fold the paper. We also know that $\angle A'MR$ is a angles when we fold the paper. Become so $\angle A'MR$ and $\angle AMR$ are both The of $\overline{AA'}$. Verify this by repeating the process for B and	id pencil OR is the rk the into because ause ∠A his makes	to trace the ersection A and A' because O' MA is a DR the	of \overline{DR} and $\overline{AA'}$ and coincide when we fold the segments across	ints where the of the circle. I label it M. A' is a ded the paper. We when we because the _ angle it measures

☐ BIG IDEAS: (1) The line of reflection	on that maps a point on a circle to its reflected image				
on the circle will be a	of the circle. (2) The				
is also t	ne of the				
segment connecting the original point on the circle to its reflected image on the circle.					

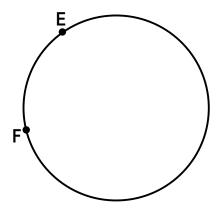
(3) Exit Ticket

ON THE LAST PAGE

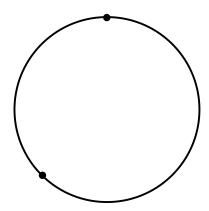
(4) Homework



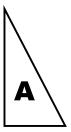
(2) Construct the line of reflection that maps E to F and label the line LR.



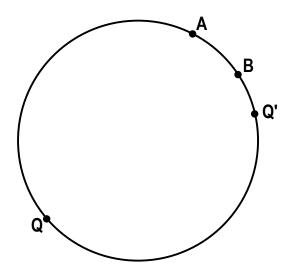
(3) Construct a diameter of the circle below and label its endpoints D and R.



		3 2.2R
(4) cont, compass highligh- ters	Homework ☐ (4) Draw obtuse angle AXE with a straightedge and construct the bisector of the angle.	
	(5) Draw and label acute angle COW with a straightedge and construct a copy of the angle. Label the copy C'O'W'.	
	(6) Draw a reflection (A'), a rotation (A"), and translation (A") of figure A below.	

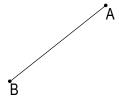


Exit Ticket	Name	Date	Per_	2.2R
(1) The LO (Le	earning Outcomes) are written below your name	e on the front	of this packet.	Demonstrate your achievement of
these outcome	es by doing the following:			
(a) Constru	uct the perpendicular bisector of the segment th	nat connects p	oint Q to point	Q'.



$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	and R.				
(c) In addition to being part of the perpendicular bisector of QQ', LR is also					
and					
(d) If you construct it, the perpendicular bisector of AB will intersect LB at					

(2) Construct the perpendicular bisector of AB.



(3) Does "reflection" pertain to (relate to) anything in your construction for part (2)?

(3) What does the image below say? Turn your paper over – left to right – and hold it up to the light. Now what does it say? Describe anything you notice.



