(DN) Write anything that come	s to mind	l when you	ı hear	or	see
the word <i>reflection</i> .					

Name	Per
SLO:	I can describe the relationship between circles,
	perpendicular bisectors, and reflection.

	of $\overline{AA'}$. Verify this by repeating the process for B \square BIG IDEAS: (1) The line of reflection the on the circle will be a	nat maps a point on of the circle. (2	a circle to its re) The line of ref	eflected image lection is also			
	of $\overline{AA'}$. Verify this by repeating the process for B	and B, C and C, and D a	a circle to ite re	flected image			
	$A \overline{A A } = A \overline{A } $	or AA° . Verify this by repeating the process for B and B, C and C, and D and D. BIG IDEAS: (1) The line of reflection that many a point on a circle to its reflected image.					
	$_$ SU $\angle A$ with all $\angle A$ with all B built $_$. This makes DR the $_$						
	anyles when we jou the paper. I	$\frac{D + U + U + U}{D + U} \neq \frac{D + U}{D + U}$		_ anyle it measures			
	fold the paper. We also know that $\angle A$ MR is a	0T0T0T	across	because the			
	also know that $A'M$ is a reflection of across the second	because the	e segments	when w			
	of A across because A and A' coincide when we folded the paper. We						
	crease intersects the circle and label them D and F	K. DR is the	\overline{DP} and $\overline{AA'}$ and	OT the circle.			
(3) aper ircle 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 so that point A' coincides with point A and crease the paper. Unfold the paper and use a straightedge and pencil to trace the crease. Mark the points where the crease intersects the circle and label them D and P. DP is the						
	Segments with endpoints on the circle that pass th	rough the	are called				
	These 4 line segments with endpoints on the circle	all pass through the	inect points that an	of the circle.			
	(d) Repeat the steps in part (b) and (c) above with points C and C' and D and D'.						
	Unfold the paper and use a straightedge and penci	il to trace the crease you	made.				
	paper. With the paper creased, hold it up to the light. How much of the circle do you see?						
	(c) On the circle, find point B and point B'. Fold the paper so that point B' coincides with point B and crease the						
	Linfold the paper and use a straightedge and pencil to trace the crease you made						
	(b) On the circle, find point A and point A'. Fold the paper so that point A' coincides with point A and crease the						
	(a) Obtain the Paper Circle 2.2 page						
e 2.2							

(3) Exit Ticket

(a) Describe the relationship between circles, perpendicular bisectors, and reflection. You may want to use a compass and straightedge to make a construction that supports your description

(4) Homework

(1) Draw and label two segments AB and CD. Construct the perpendicular bisector for each segment.

(2) Below is a construction of an angle bisector. Complete the full circle for circle B. Draw line segment DE.



Use what you learned about circles, diameters, and segments to explain how you know that the angle bisector, ray BF, is also the perpendicular bisector of line segment DE.





