

NAME

Let's Reflect!

For this activity you will need...

Blank Paper, A Ruler, A Protractor



Directions...

- 1. Fold the sheet of paper in half and draw thee bold dots on your paper in the shape of a triangle without unfolding the piece of paper.
- 2. Label the three points A, B, and C and connect them with straight lines using a ruler.
- 3. Turn over the piece of paper and trace your dots and the line segments of your triangle. Label them A', B', and C'.
- 4. Use your ruler to connect the corresponding vertices. (For example, connect A to A' and B to B'.)
- 5. Trace the fold line on your paper. This will cut each of the line segments that you made in step 4 in half. Measure each ½ segment in centimeters and label its measurement on the drawing.
- 6. What do you notice about these measurements?
- 7. Measure each angle formed by the segments and the fold line. Label them on the drawing. What is the relationship between these angles?
- 8. Look at point A, is it located on the right side or left side of your picture?
- 9. Look at point A', is it located on the right side or left side of your picture?
- 10.Do your other corresponding points follow the same change? Explain your thoughts in a complete sentence?
- 11. Label a point D on the side of your picture with points A, B, and C. Explain in words how to find D' WITHOUT folding the paper.

More Reflections!

- 1. Describe in words what a reflection is. Draw a picture to support your answer.
- Use the grid below to find the pre-image and in the image coordinates to complete the following table.



Point	Reflection over the y axis		Reflection over the x-axis	
	Pre-Image	Image	Pre-Image	Image
Α	(-3,3)	(3,3)		
В				
С				
D				
F				
G				
Н				
I				
J				

3. Use any patterns from the table above to fill in RULES for REFLECTIONS!

	Reflecting over the y-axis	Reflecting over the x-axis
Rules described in WORDS		
Rules using MATH SYMBOLS		