

Name: _____ Class: _____ Self-Assessment: _____ Teacher-Assessment: _____
 Checked Boxes: 1 = D-, 2 = D, 3 = D+, 4-5 = C-, 6 = C, 7 = C+, 8 = B-, 9 = B, 10 = B+, 11-12 = A-, 13 = A, 14 = A+

Assignment		Geometric Transformations (Chap 7 Alternative Assessment)
Learning Target		Create, identify and describe geometric transformations.
Success Criteria		Students will use software such as <i>Paint, PowerPoint, Word, etc.</i> to 1) create a unique pre-image; 2) create 4 transformations: translation, reflection, rotation & composition of the image; 3) describe the geometric transformation in terms of coordinates; 4) turn-in this rubric, a paper copy & e-mail the digital file to bklee@ccs.coloma.org .
Self	Teacher	You must accurately assess yourself within 1 box of your actual grade or you will lose 1 box. EC for showing all the measurements in the digital file.
		4 or A+ (mastery)
		4.4 (+3.4) A FORMULA is written in terms of (x, y) that can be used to map any coordinate of the PRE-IMAGE onto the COMPOSED IMAGE.
		4.3 (+3.3) A FORMULA is written in terms of (x, y) away from the CENTER OF ROTATION that can be used to map any coordinate of the PRE-IMAGE onto the ROTATED IMAGE.
		4.2 (+3.2) A FORMULA is written in terms of (x, y) that can be used to map any coordinate of the PRE-IMAGE across the LINE OF REFLECTION onto the REFLECTED IMAGE.
		4.1 (+3.1) A FORMULA is written in terms of (x, y) that can be used to map any coordinate of the PRE-IMAGE onto the TRANSLATED IMAGE.
		3 or B+ (advanced proficiency)
		3.4 (+2.4) The COMPOSITION is shown using a combination of requirements below.
		3.3 (+2.3) The ROTATED IMAGE has a clear CENTER OF ROTATION identified and the ANGLE OF MEASURE from the PRE-IMAGE is measured and shown.
		3.2 (+2.2) The distance of at least 2 points on the REFLECTED IMAGE are measured and shown to be equidistant to the LINE OF REFLECTION with 2 corresponding points of the PRE-IMAGE.
		3.1 (+2.1) The horizontal and/or vertical VECTOR(S) are measured and clearly show how the TRANSLATED IMAGE can be obtained from the PRE-IMAGE.
		2 or C (basic proficiency)
		2.4 The unique PRE-IMAGE & its COMPOSITION are identified.
		2.3 The unique PRE-IMAGE & its ROTATION are identified.
		2.2 The unique PRE-IMAGE & its REFLECTION are identified.
		2.1 The unique PRE-IMAGE & its TRANSLATION are identified.
		1 or D (some basic problems with minimal help)
		A unique PRE-IMAGE and ALL transformations are created.
		0.5 or D- (some basic problems with considerable help)
		A unique PRE-IMAGE and SOME transformations are created.
		0 or E (displays no ability or understanding)

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Common Core Standard(s)	G.CO.2	Represent transformations in the plane using, e.g., transparencies and geometry software; describe transformations as functions that take points in the plane as inputs and give other points as outputs. Compare transformations that preserve distance and angle to those that do not (e.g., translation versus horizontal stretch).
	G.CO.3	Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.
	G.CO.4	Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.
	G.CO.5	Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.
	N.VM.2	Find the components of a vector by subtracting the coordinates of an initial point from the coordinates of a terminal point.

Additional Resources:

Your GEOMETRY Book!

My website: <http://mrbrianklee.weebly.com/geometry.html>

Which contains links to all of the following:

Video explaining TRANSFORMATIONS: https://www.youtube.com/watch?v=r3IN_BADmPQ

Video for using PAINT: <https://www.youtube.com/watch?v=QjRi0Mq3G2g>

Video for using WORD: https://www.youtube.com/watch?v=tJVTv_QcpaA

Video for using POWER POINT: <https://www.youtube.com/watch?v=rOD7SXFkv9Q>