

# LESSON PLAN

Lesson #: 18

Unit#: 1

Warmup: Prepare for class

Attendance: Your attention is appreciated!!!

Review: Translations, Reflections, Rotations

Standards: NC.M2.G-CO.2-8

Essentials:

Coordinate Transformations	
Translation	$(x, y) \rightarrow (x + a, y + b)$
Reflection across the $x$ -axis	$(x, y) \rightarrow (x, -y)$
Reflection across the $y$ -axis	$(x, y) \rightarrow (-x, y)$
Reflection across the line $y=x$	$(x, y) \rightarrow (y, x)$
Rotation $90^\circ$ about the origin	$(x, y) \rightarrow (-y, x)$
Rotation $180^\circ$ about the origin	$(x, y) \rightarrow (-x, -y)$
Rotation $270^\circ$ about the origin	$(x, y) \rightarrow (y, -x)$
Dilation with respect to the origin and scale factor of $k$	$(x, y) \rightarrow (kx, ky)$

News: [See JHS Home Page](#)

Essentials: [Composition of Transformations](#)  
[Examples](#)

Presentation: [Slide Show](#)

Classwork: Reveal 13.4

Homework: Complete Missing Assignments

Questions: Your Turn!!!

Bell: Have a nice day!!!