

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° about the origin	$(x, y) \rightarrow (-y, x)$
Rotation 180° about the origin	$(x, y) \rightarrow (-x, -y)$
Rotation 270° 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!!!