

LESSON PLAN

Lesson #: 12

Unit#: 1

Warmup: Phones away!

Attendance: Your attention is appreciated!!!

News: [See JHS Home Page](#)

Standards: NC.M2.G-CO.5, NC.M2.G-CO.

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	$(x, y) \rightarrow (kx, ky)$

[reflections](#)

Classwork: Reveal 13.1 Reflections Practice

Homework: Reveal 13.2 Translations Practice

Bell: Have a nice day!!