LESSON PLAN

Lesson #:   17   **Unit#: 0**

Warmup: Phones away! Get your computer out and on!
                    Say hello to your classmates!!!

Attendance: Your attention is appreciated!!!

News: [See JHS Home Page](#)

Prior Topics: Worksheets => Showing Your Work
                    Transformations (translate,reflect)

Today's Topics: Rotations, [SCRATCH](#)

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

Classwork: Goto [Transformations In SCRATCH](#)

Homework: REVEAL 13.3 & Any OLD STUFF!!!!!

Questions: Your Turn!!!

Bell: Have a nice day!!!