**Name:**

**Unit 4–Geometry- Transformation and Angle Relationships**

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| **Learning Target:****8.G1- I can verify experimentally the properties of rotation, reflections and translations** | Notes and Resources:  | Be able to:* Translations- (slide) segments created by connecting corresponding points are of equal length
* Rotation- (turn) all corresponding point rotate the same angle measure.
* Reflections- (flip) Connecting corresponding points will create parallel lines
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| **Learning Target :****8.G2 I can identify a series of transformations to prove or disprove that 2 figures are congruent.** **-** | Notes and Resources:

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 | Be able to identify that figures will remain **congruent** when **translated, rotated and reflected.**  |
| **Learning Target :****8. G 3 I can describe the effects of translations, rotations, reflections and dilation on the coordinates of 2 – dimensional figures.**  | Notes and Resources:  | Be able describe a rule for:* *Translation – (x+2, y-1) means move RT 2 DN 1*
* *Rotation 90 degrees CCW (x,y) coordinate switch (y,x) and signs depend*

*on which Quadrant the point land in.** *Reflections- Sings change depending on which Quadrant the point land in.*
* *Dilations- (2x, 2y) multiply each x and y value by 2)*
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| **Learning Target :****8.G 4 I can identify a series of transformations to prove or disprove that 2 figures are similar.**  | Notes and Resources: | Be able to identify that figures will remain **CONGRUENT or SIMILAR**  when **translated, rotated and reflected AND DIALATED.**  |
| **Learning Target :****8.G 5 A I can make conjectures regarding the relationships and measurements of the angles created when 2 parallel lines are cut by a transversal.** | Notes and Resources: | **I can describe missing angle measurement created when 2 parallel lines are cut by a transversal.** |
| **Learning Target :****8.G5B I can justify that 2 triangles are similar comparing corresponding angle measures.** | Notes and Resources: | **I can determine if two triangle are similar by verifying if the corresponding angles are congruent.** |
| **Learning Target :****8 G 5C I can apply my knowledge of the angle sum and exterior angle of triangles to calculate missing angle measures** | Notes and Resources: | **Determine the missing angle of a triangle** **Determine the exterior angle of a**  |