**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 |
| **Learning Target :**  **8.G2 I can identify a series of transformations to prove or disprove that 2 figures are congruent.**  **-** | Notes and Resources:   |  | | --- | |  | | 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** |