Geometry Learning Targets

- I can describe & perform rigid transformations, both graphically & algebraically, & describe symmetry in a figure. [G-CO.1-5]
- I can use & prove relationships among angles formed by intersecting lines; among angles within triangles; & among parts of triangles within parallelograms. [G-CO.9-10]
- I can perform constructions to produce objects with known angle- & length-relationships. [G-CO.12]
- I can use & explain the connections between congruence & rigid motions, especially as applied to triangle congruence. [G-CO.6-8]
- I can use dilations, scale factor & the definition of similarity, to determine & establish similarity between 2 objects, especially triangles. [G-SRT.1-3]
- I can use congruence & similarity criteria to solve problems & prove geometric relationships. [G-SRT.5]
- I can identify & explain corresponding trigonometric ratios for acute angles in similar right triangles; & for acute angles & their complements; & use trigonometric ratios & the Pythagorean Theorem to solve right triangles. [G-SRT.6-8]
- I can identify indications for, & use, the Law of Sines & the Law of Cosines. [G-SRT.10-11]
- I can use geometric shapes, their measures, & their properties, to describe objects & model situations, including those involving density. [G-MG.1-2]
- I can identify, find & use parts of, dimensions of, & formulas for volume of, circles, cylinders, pyramids & cones. [G-GMD.1-2]
- I can identify relationships between 2-D shapes & 3-D objects intersected by planes; & between 3-D objects & 2-D objects rotated about lines. [G-GMD.4]
- I can use algebraic tools to identify & find information about polygons on the coordinate plane. [G-GPE.4-6]
- I can use proportional reasoning to relate arc length & sector area to a circle's circumference & area. [G-C.5]
- I can identify & use relationships among angles formed by tangents, radii & chords of circles. [G-C.2]
- I can determine independence & find conditional probability for probalistic events, including by modeling data with 2-way tables. [S-CP.1-5]
- I can use tree diagrams & area models to represent independent events. [S-CP.6-9]
- I can calculate an analyze expected values, & use probabilities to determine fairness. [S-MD.5-7]
- I can consistently and thoroughly complete and check assigned Review & Preview exercises.
- I can consistently and thoroughly make & maintain a neat, organized Interactive Notebook.
- I can make sense of problems and persevere in solving them. [CCSS-MP1]
- I can reason abstractly and quantitatively. [CCSS-MP2]
- I can construct viable arguments and critique the reasoning of others. [CCSS-MP3]
- I can model with mathematics. [CCSS-MP4]
- I can use appropriate tools strategically. [CCSS-MP5]
- I can attend to precision. [CCSS-MP6]
- I can look for and make use of structure. [CCSS-MP7]
- I can look for and express regularity in repeated reasoning. [CCSS-MP8]