6thGrade Math Unit Plan -Geometry

Indicators:

GSS.D.1 Classify and describe two-dimensional and three dimensional geometric figures and objects by using their properties; e.g., interior angle measures, perpendicular/parallel sides, congruent angles/sides.

GSS.A.2 Use standard language to define geometric vocabulary: vertex, face altitude, diagonal, isosceles, equilateral, acute, obtuse, and other vocabulary as appropriate.

GSS.G.3 Use multiple classification criteria to classify triangles; e.g., right scalene triangle.

GSS.A.4 Identify and define relationships between planes; i.e., parallel, perpendicular, and intersecting.

GSS.H.5 Predict and describe sizes, positions, and orientations of two-dimensional shapes after transformations such as reflections, rotations, translations, and dilations.

GSS.E.6 Draw similar figures that model proportional relationships; e.g., model similar figures with a 1 to 2 relationship by sketching two of the same figure, one with corresponding sides twice the length of the other.

GSS.I.7 Build three-dimensional objects with cubes, and sketch the two-dimensional representations of each side; i.e., projection sets.

Content/Concepts:

        Use geometric vocabulary, describe two and three- dimensional objects, classify triangles, classify planes, describe transformations, draw similar figures, and build three-dimensional objects and sketch.

Skills:

Classify, describe, name, draw, and build

Critical Questions:

* Can I name a geometric figure and tell why it is that figure?
* Can I look at a geometric term and be able to explain or show what it is?
* Can I classify all types of triangles based on their sides and angles?
* Can I look at a plane and give it a name?
* Can I make transformations or describe the change after the transformation?
* Can I draw similar figures with different proportions and answer questions about them?
* Can I build a three-dimensional object and make a sketch from different sides?

Assessments:

Daily classroom work

Practice work

Classroom participation

Quizzes

Tests