



Curriculum Overview - Geometry

3rd and 4th Grades

Introduce the definitions and practice learning the basic concepts of geometry

which include: point, line, different lines, line segment, ray, angle/s, plane, solids

Introduce the definitions/characteristics of a polygon vs. non polygon.

Recognize the polygons and know definitions of each starting with triangles through dodecagon.

Introduce/practice using the formulas for finding perimeter, area, and volume. (rectangle, square, cube) Introduce briefly circumference/area of a circle.

(Comparing perimeter to circumference)

Introduce the use of geometry tools:

ruler/yardstick/meter stick (in. dm cm mm), protractor, compasses.

Introduce definitions and basic parts of a circle.

(center, radius, diameter, chord)

Introduce geometry nets, cube, cone, cylinder, simple pyramid and prism.

5th Grade and 6th Grades

In Addition to the above curriculum:

Convex polygons,

More in depth information on triangles and quadrilaterals.

Use of formulas for finding perimeter and area of squares, rectangles, triangles, parallelograms, and trapezoids.

Continue with the use of the volume formula and circumference/area of a circle.

Parts of a circle: center, radius, diameter, chord, tangent, angles, and secant.

Grade 7

In Addition to the curriculum for grades 3-6:

Full use of the Pythagorean Theorem along with Pythagorean Triples

Introduction to perfect squares/square

roots for Pythagorean Theorem

Using formulas to find surface areas.

