# Unit \#4: Math - Geometry (Grade 3) 

| Content Area: | Mathematics |
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| Course(s): | Math 3 |
| Time Period: | Marking Period 3 |
| Length: | March-April |
| Status: | Published |

## Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

| MA.3.G.A. 1 | Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) <br> may share attributes (e.g., having four sides), and that the shared attributes can define a <br> larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as <br> examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any <br> of these subcategories. |
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| MA.3.G.A.2 | Partition shapes into parts with equal areas. Express the area of each part as a unit <br> fraction of the whole. |
| MA.3.MD.C.7d | Recognize area as additive. Find areas of rectilinear figures by decomposing them into <br> non-overlapping rectangles and adding the areas of the non-overlapping parts, applying <br> this technique to solve real world problems. |
| MA.3.MD.D.8 | Solve real world and mathematical problems involving perimeters of polygons, including <br> finding the perimeter given the side lengths, finding an unknown side length, and <br> exhibiting rectangles with the same perimeter and different areas or with the same area <br> and different perimeters. |

## Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How can shapes be combined or separated to make other shapes?
- How can two-dimensional shapes be described, analyzed, and classified?
- How do you describe angles?
- What is important to know about line?


## Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- An angle is formed by two rays with a common endpoint. Angles can be classified by their size.
- Lines and line segments are sets of points in space that can be used to describe parts of other geometric lines, shapes, and solids.
- Plane shapes and polygons have many different properties that make them different from one another. Polygons can be classified by their sides and angles.
- Ploygons can be put together or taken apart to make other polygons by touching their edges or vertices


## Content

Students will be able to:

- identify lines and line segments and explore their different relationships
- identify and classify angles in relation to right angles
- identify and classify polygons
- identify and classify triangles
- identify and classify quadrilaterals
- create new shapes by combining shapes or by seperating shapes
- make a new shape by cutting apart a shape and rearranging the pieces
- solve a problem by first solving a simpler problem
- identify commonalities among objects or situations to make and test generalizations

Vocabulary students will know:
point
line
line segment
intersecting lines
parallel lines
ray
angle
vertex (of an angle)
right angle
perpendicular
acute angle
obtuse angle
polygon
side
vertex (of a polygon)
diagonal
triangle
quadrilateral
pentagon
hexagon
octagon
decagon
equilateral triangle
isosceles triangle
scalene triangle
right triangle
acute triangle
obtuse triangle
trapezoid
parallelogram
rectange
rhombus
square

## Resources

Envision Resources

- www.pearsonsuccessnet.com
- textbook
- student online resources
- Daily Common Core Review
- Quick Checks
- Reteaching/Practice
- Math Centers
- Tangrams
- Geometric shapes

Unit lesson flipcharts

Online Games from teacher website

