

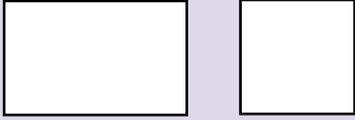
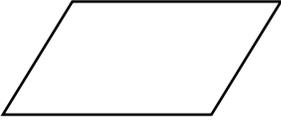
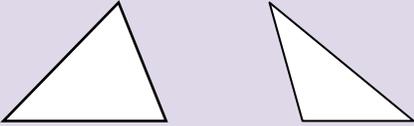
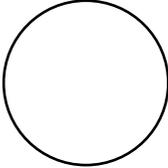
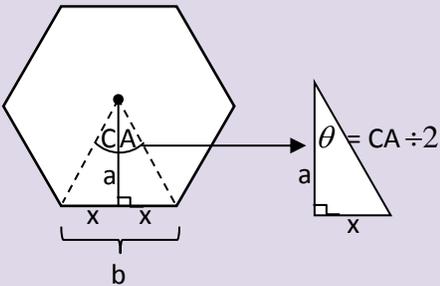
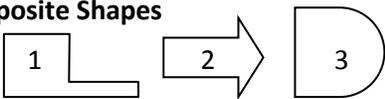
REGENTS GEOMETRY SYLLABUS
UNIT 9: PLANAR FIGURES

YOU WILL NEED GRAPH PAPER FOR THIS UNIT! BE SURE TO SHOW ALL WORK

LESSON (DATE)	TOPIC	BOOK/ VIDEO	CCLS	HOMEWORK
9-1	Angles in Polygons: Interior, Exterior	6-1		WORKSHEET 9-1
9-2	Perimeter and Area Formulas of Simple and Composite Planar Figures	9-1	G.M.G.1 G.M.G.3	WORKSHEET 9-2
9-3	Quiz; Central Angles; Rotating Polygons	9-2	G.M.G.1 G.CO.D.13	WORKSHEET 9-3
9-4	Inscribed Regular Polygon Constructions; Area of a Regular Polygon (Composite)	9-2	G.M.G.1	WORKSHEET 9-4
9-5	Area and Perimeter of Coordinate Plane Figures	9-3 9-4	G.M.G.1 G.GPE.7	P 609-611 #6, 10, 13, 23 P 619** #6, 7, 8, 20 **all on graph paper

*Although there is no final assessment for this unit,
you will be responsible for applying the formulas and techniques in unit 10.*

Summary of Area Formulas

Shape	Area Formula	Notes
Rectangle or Square 	$A = bh$	Base and height must be _____
Parallelogram 	$A = bh$	Base and height must be _____
Triangle 	$A = bh/2$ Where b is the _____ And h is the _____ from the _____	Base and height must be _____ Altitude = height and may fall outside the triangle.
Rhombus 	$A =$ or $A =$ Where d_1 and d_2 are the _____	*Can also be treated as a composite.
Trapezoid 	$A =$ Where b is the _____ And h is the _____	Base and height must be _____ *Can also be treated as a composite.
Circle 	$C =$ $A =$ $R =$ $D =$ Where r is the _____	
Regular Polygon 	$A =$ Because it can be broken into n number of _____ _____	Definition of apothem (a): The distance from the center _____ to the _____ of any side. This is the height of the isosceles triangle. Definition of central angle (CA): Angle with the _____ of the polygon as its vertex and extending through consecutive vertices. To find a central angle = <input style="width: 100px; height: 40px;" type="text"/>
Composite Shapes 	Write equation formula for area of figure 3: $A_{total} =$	Calculate the areas of simple shapes and then sub into equation. _____ or _____ areas as needed.

