Geometric Classification & Relationship

Classification: categorizing **one** at a time.
Relationship: connection between **two** things.

ENTITY	CLASSIFICATION	RELATIONSHIP	
SETS of POINTS in one dimension	line, ray, segment	coincident, congruent	**H**
LINES or CURVES	plane, simple, closed, simple-closed, polygon	intersecting, skew, perpendicular, parallel, coincident	**O**
ANGLES	acute, right, obtuse straight reflex	vertical, adjacent, corresponding, alternate interior, alternate exterior, supplementary, complementary congruent	**M** **O** **G** **E**
POLYGONS	concave, convex	congruent, similar	
CONVEX Polygons	regular, irregular	congruent, similar	**N**

SOLIDS	**polyhedra**
	    prism, pyramid
	other
	  sphere, cone, cylinder, solids of revolution
		congruent
		similar
			E
			O

TRIANGLES	**sides:** equilateral, isosceles, scalene **angles:** acute, right, obtuse, equiangular	congruent similar	**U**
QUADRILATERALS	square, rectangle, parallelogram, kite, rhombus, trapezoid	congruent, similar	**S**
POINTS	endpoint, midpoint, intersection, vertex		
LINES/SEGMENTS *in or about a circle*	radius, diameter, chord, tangent, secant		
ANGLES *in a circle*	central, inscribed	**H E T E R O –**	
LINES, RAYS, SEGMENTS *in a triangle*	perpendicular bisector, altitude, median, angle bisector	**G E N E O U S**	
ATTRIBUTES	length, area, volume; velocity, mass, age, magnetic flux, luster, electrical charge, momentum, temperature		

Mega-Relationships (three or more at a time):

(A) concurrent lines;   (B) collinear points