NYS 3-D Geometry Performance Indicators: Students:	
Geometric Relationships	
G.G.1 Know and apply that if a line is perpendicular to each of two interpoint of intersection, then the line is perpendicular to the plane of	rsecting lines at their letermined by them
G.G.2 Know and apply that through a given point there passes one and onl perpendicular to a given line	y one plane
G.G.3 Know and apply that through a given point there passes one and onl perpendicular to a given plane	y one line
P G.G.4 Know and apply that two lines perpendicular to the same plane are o	coplanar
G.G.5 Know and apply that two planes are perpendicular to each other if ar contains a line perpendicular to the second plane	nd only if one plane
G.G.6 Know and apply that if a line is perpendicular to a plane, then any lin given line at its point of intersection with the given plane is in the given	e perpendicular to the en plane
G.G.7 Know and apply that if a line is perpendicular to a plane, then every line is perpendicular to the given plane	plane containing the
G.G.8 Know and apply that if a plane intersects two parallel planes, then the parallel lines	e intersection is two
G.G.9 Know and apply that if two planes are perpendicular to the same line	e, they are parallel
P G.G.10 Know and apply that the lateral edges of a prism are congruent and	l parallel
G.G.11 Know and apply that two prisms have equal volumes if their bases their altitudes are equal	have equal areas and

