Geometry (G.CO.1)		Name:	
Unit 1A: Vocabulary & Notatio	on (IC4)	Date:	Period:
1. Examine the illustration. Identify the places where lines intersect each other. What kind of geometric figure is the intersection of two lines? Point			
POSTULATE: The intersection of two lines is a <u>Point</u> .			
Follow-Up Questions:	How many lines intersect at each corner of the f	igure? 3	F
	Do you think there is a limit to the number of lin at a certain point? <u>NO</u>	es that can intersect	
2. Identify the places in the illustration where planes intersect each other. What kind of geometric figure is the intersection of two planes? Line			
POSTULATE: The intersection of two planes is a <u>Line</u> .			
Follow-Up Questions:	How many planes intersect at each corner of the	e figure? <u>3</u>	
	The intersection of three planes is a Poi	int	
	Do you think there is a limit to the number of pla	anes that can interse	ect? <u>NO</u>
3. Look at A and B in the illustration. How many lines pass through both of these points? <u>1</u>			
POSTULATE: Through any two points there is <u>exactly one line</u> .			
Follow-Up Questions:	How many points are on a line? Infinite		
	How many points are used to name a line?	2	
4. Look at A, B, and C in the illustration. How many planes pass through these three non-collinear points?1			
POSTULATE: Through any three non-collinear points there is <u>Exactly one plane</u> .			
Follow-Up Questions:	How many points are in a plane? Infinit	e	
	How many points are used to name a plane?	3	
	How many lines are in a plane? infinit	te	
5. Pick any plane in the illustration. Then pick two points that are in the plane. Name the line that passes through these two points. <u>AD</u> Is the line in the plane that you picked? <u>Yes</u>			
POSTULATE: If two poi	nts are in a plane, then the line containing them _	is in the pla	ne
Follow-Up Questions:	What happens to the line if one of the points pic	cked is not in the pla	ne?
	Then the line is not in the plane		
	What happens to the line if both of the points picked are not in the plane? (2 answers)		
	Then the line is parallel to the plane or		
	The line would intersect the plane at a point.		