

Mission: Master Math by Attacking Problems



Unit 1: Points, Lines and Planes

Learning Goal: Students will be able to use the correct terminology for basic geometric figures and conceptualize the foundational postulates in the study of Geometry. Students will focus on line segment length, partitioning and relationship to other lines in the same plane.

LT1	I can define, name and identify they basic geometry terms in complex diagrams and determine if points, lines and	G-CO.1.1	
	edges are coplanar or skew. I can solve for missing segment measures by applying the segment addition postulates.	n postulates.	
LT2	I can choose between and apply the midpoint and distance formulas in different contexts.	G-GPE.2.7	
LT3	I can find the point that partitions a line segment in a given ratio.	G-GPE.2.7	
LT4	I can identify and write the equations for parallel and perpendicular lines.	G-GPE.2.5	













(Mastery, Mission Accomplished)

The **STUDY GUIDE** below aligns Algebra Nation with Khan Academy and the Textbook for lesson re-teaching, review and practice. Your teacher will assign tasks in any combination of the 3 resources to enrich your understanding of the material.

Remediation and Enrichment (CARE Assignments)

ALGEBRA NATION LESSON	KHAN ACADEMY VIDEO	KHAN ACADEMY PRACTICE	TEXTBOOK
Topic 1: Basics of Geometry –	Intro to Euclidean Geometry		Holt (Green) Regular:
Part 1	Terms & labels in geometry	Identify rays, lines, & line	Ch. 1 Sections 1 – 2
Topic 2: Basics of Geometry –	Lines, line segments, & rays	segments	Larson (Blue) Honors:
Part 2	Specifying planes in three dimensions	Draw rays, lines & line	Ch. 1 Sections 1 – 2
		segments	
		Points, lines, and planes	
Topic 3: Midpoint and	<u>Distance Formula</u>		Holt (Green) Regular:
Distance in the	Distance formula	Distance between two points	Ch. 1 Section 6
Coordinate Plane –	Midpoint formula	Midpoint formula	Larson (Blue) Honors:
Part 1	Study Guides		Ch. 1 Section 3
Topic 4: Midpoint and	Distance formula		
Distance in the	Midpoint formula		
Coordinate Plane –	Distance formula review		
Part 2	Midpoint formula review		
	<u>Challenge/Extension</u>	<u>Challenge/Extension Practice</u>	
	Area of trapezoid on the coordinate plane	Area and Perimeter in the	
		Coordinate Plane	
Topic 5: Partitioning a Line	<u>Directed Line Segments</u>		Holt (Green) Regular:
Segment – Part 1	Dividing line segments: graphical	Divide line segments	Ch. 7 Extension (p.515)
Topic 6: Partitioning a Line	Dividing line segments		Larson (Blue) Honors:
Segment – Part 2			Ch. 7 Extension (p.410)
Topic 7: Parallel and	Parallel & perpendicular lines on the coordinate plane		
Perpendicular Lines –	Parallel & perpendicular lines – introduction	Parallel & perpendicular lines	Holt (Green) Regular:
Part 1	Parallel & perpendicular lines from graph	from graph	Ch. 3 Sections 4 – 6
Topic 8: Parallel and	Equations of parallel & perpendicular lines		Larson (Blue) Honors:
Perpendicular Lines –	Parallel lines from equation	Parallel & perpendicular lines	Ch. 3 Sections 4 - 6
Part 2	Parallel lines from example 2	from equation	
	Parallel lines from example 3	Write equations of parallel &	
	Perpendicular lines from equation	perpendicular lines	
	Writing equations of perpendicular lines		
	Writing equations of perpendicular lines (example 2)		1_3
	Proofs: parallel lines have the same slope		
	Proof: perpendicular lines have negative reciprocal slope		