



Bluebonnet Learning

Secondary Mathematics

EDITION 1

Grade 8

ELPS Summary

Acknowledgment

Thank you to all the Texas educators and stakeholders who supported the review process and provided feedback. These materials are the result of the work of numerous individuals, and we are deeply grateful for their contributions.

Notice

These learning resources have been built for Texas students, aligned to the Texas Essential Knowledge and Skills, and are made available pursuant to Chapter 31, Subchapter B-1 of the Texas Education Code.

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GRADE 8 ELPS SUMMARY

Module	Topic	Lesson	Lesson Title	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F
Module 1: Transforming Geometric Objects	Topic 1: Rigid Motion Transformations		Introduction Lesson					•									
		1	Introduction to Congruent Figures			•											
		2	Introduction to Rigid Motions	•		•											
		3	Translations of Figures on the Coordinate Plane														
		4	Reflections of Figures on the Coordinate Plane														
		5	Rotations of Figures on the Coordinate Plane													•	
		6	Congruence and Rigid Motions			•											
	Topic 2: Similarity	1	Dilations of Figures	•	•												
		2	Dilating Figures on the Coordinate Plane														
		3	Mapping Similar Figures Using Dilations			•		•									
	Topic 3: Line and Angle Relationships	1	Exploring Angle Theorems											•		•	
		2	Exploring the Angles Formed by Lines Intersected by a Transversal														
		3	Exploring the Angle-Angle Similarity Theorem														

GRADE 8 ELPS SUMMARY

A scatter plot on a 20x20 grid. The grid lines are spaced at intervals of 1 unit. There are 18 data points plotted as small black dots. The points are located at the following approximate coordinates (x, y): (2, 15), (4, 18), (6, 12), (8, 10), (10, 14), (12, 16), (14, 11), (16, 13), (18, 17), (2, 8), (4, 5), (6, 3), (8, 7), (10, 4), (12, 6), (14, 2), (16, 9), (18, 1). A diagonal watermark reading 'Cameo Corporate Services' is visible across the plot.

GRADE 8 ELPS SUMMARY

Module	Topic	Lesson	Lesson Title	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F
Module 2: Developing Function Foundations	Topic 1: From Proportions to Linear Relationships	1	Representations of Proportional Relationships								•				•		
		2	Using Similar Triangles to Describe the Steepness of a Line											•			
		3	Exploring Slopes Using Similar Triangles														
		4	Transformations of Lines									•					
	Topic 2: Linear Relationships	1	Using Tables, Graphs, and Equations	•													
		2	Linear Relationships in Tables					•						•			
		3	Linear Relationships in Contexts				•										
		4	Slope-Intercept Form of a Line		•										•		
		5	Defining Functional Relationships			•											
Module 3: Data Data Everywhere	Topic 1: Patterns in Bivariate Data	1	Analyzing Patterns in Scatterplots	•												•	
		2	Drawing Trend Lines				•										
		3	Analyzing Trend Lines					•						•			
		4	Comparing Slopes and Intercepts of Data from Experiments														
	Topic 2: Variability and Sampling	1	Mean Absolute Deviation			•											
		2	Collecting Random Samples													•	
		3	Sample Populations					•									

GRADE 8 ELPS SUMMARY

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Module	Topic	Lesson	Lesson Title	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F
Module 4: Modeling Linear Equations	Topic 1: Solving Linear Equations and Inequalities	1	Equations with Variables on Both Sides	•											•		
		2	Analyzing and Solving Linear Equations														
		3	Solving Linear Inequalities														
	Topic 2: Systems of Linear Equations	1	Point of Intersection of Linear Graphs					•						•			
		2	Systems of Linear Equations														
		3	Multiple Representations of Systems of Linear Equations			•											
Module 5: Applying Powers	Topic 1: Real Numbers	1	Sorting Numbers					•						•			
		2	Rational and Irrational Numbers										•				•
		3	The Real Numbers			•			•								
		4	Scientific Notation	•													
	Topic 2: The Pythagorean Theorem	1	The Pythagorean Theorem						•								
		2	The Converse of the Pythagorean Theorem	•													
		3	Distances in a Coordinate System					•									
		4	Side Lengths in Two and Three Dimensions													•	
	Topic 3: Financial Literacy: Your Financial Future	1	Simple and Compound Interest			•								•			
		2	Terms of a Loan					•									
		3	Online Calculators														
		4	Financing Your Education														
	Topic 4: Volume of Curved Figures	1	Volume, Lateral, and Total Surface Area of a Cylinder				•								•		
		2	Volume of a Cone					•									
		3	Volume of a Sphere							•							
		4	Volume and Surface Area Problems with Prisms, Cylinders, Cones, and Spheres														

GRADE 8 ELPS SUMMARY

Grade 8 ELPS Summary by Module and Topic	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F	2.G	2.H	2.I
Module 1 ELPS Summary	•	•	•		•						•		•				•
M1 Topic 1 ELPS Summary	•		•		•								•				•
M1 Topic 2 ELPS Summary	•	•	•		•												
M1 Topic 3 ELPS Summary											•	•					
Module 2 ELPS Summary	•	•	•		•	•		•	•		•	•			•	•	•
M2 Topic 1 ELPS Summary								•	•		•	•			•	•	•
M2 Topic 2 ELPS Summary	•	•	•		•	•					•	•					•
Module 3 ELPS Summary	•		•	•	•	•					•		•			•	
M3 Topic 1 ELPS Summary	•			•		•					•		•				
M3 Topic 2 ELPS Summary			•		•								•			•	
Module 4 ELPS Summary	•		•		•						•	•			•		
M4 Topic 1 ELPS Summary	•											•			•		
M4 Topic 2 ELPS Summary			•		•						•						
Module 5 ELPS Summary	•		•	•	•	•	•			•	•	•	•	•	•	•	•
M5 Topic 1 ELPS Summary	•		•		•	•				•	•			•			•
M5 Topic 2 ELPS Summary	•				•	•							•			•	•
M5 Topic 3 ELPS Summary			•		•						•						
M5 Topic 4 ELPS Summary				•	•		•					•			•	•	•

Grade 8 ELPS Course Summary	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F	2.G	2.H	2.I
Grade 8 ELPS Course Summary	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Grade 8 ELPS Summary by Module	1.A	1.B	1.C	1.D	1.E	1.F	1.G	1.H	2.A	2.B	2.C	2.D	2.E	2.F	2.G	2.H	2.I
Module 1 ELPS Summary	•	•	•		•						•		•				•
Module 2 ELPS Summary	•	•	•		•	•		•	•		•	•			•	•	•
Module 3 ELPS Summary	•		•	•	•	•					•		•			•	
Module 4 ELPS Summary	•		•		•						•	•			•		
Module 5 ELPS Summary	•		•	•	•	•	•			•	•	•	•	•	•	•	•

GRADE 8 ELPS SUMMARY

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•	3.A
•	3.B
•	3.C
•	3.D
•	3.E
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•	3.G
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•	3.J
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•	4.F
•	4.G
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•	5.A
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•	5.C
•	5.D
•	5.E
•	5.F
•	5.G

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