OER Secondary Mathematics

EDITION 1

Grade 8

TEKS Summary

GRADE 8 TEKS SUMMARY

This document provides an overview of the TEKS coverage in Secondary Mathematics, Grade 8.

Module	Topic	Lesson	Lesson Title	8.2A	8.2B	8.2C	8.2D	8.3A	8.3B	8.3C	8.4A	8.4B	8.4C	8.5A	8.5B	8.5C	8.5D	8.5E
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															

8.5F	8.5G	8.5H	8.5I	8.6A	8.6B	8.6C	8.7A	8.7B	8.7C	8.7D	8.8A	8.8B	8.8C	8.8D	8.9A	8.10A	8.10B	8.10C	8.10D	8.11A	8.11B	8.11C	8.12A	8.12B	8.12C	8.12D	8.12E	8.12F	8.12G
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Module	Topic	Lesson	Lesson Title	8.2A	8.2B	8.2C	8.2D	8.3A	8.3B	8.3C	8.4A	8.4B	8.4C	8.5A	8.5B	8.5C	8.5D	8.5E
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															

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Module 4: Modeling Linear Equations	Topic 1: Solving Linear Equations	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															

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Grade 8 TEKS Summary by Module and Topic	8.2A	8.2B	8.2C	8.2D	8.3A	8.3B	8.3C	8.4A	8.4B	8.4C	8.5A	8.5B	8.5C	8.5D	8.5E
Module 1 TEKS Summary					•	•	•								
M1 Topic 1 TEKS Summary															
M1 Topic 2 TEKS Summary					•	•	•								
M1 Topic 3 TEKS Summary															
Module 2 TEKS Summary							•	•	•	•	•	•			•
M2 Topic 1 TEKS Summary							•	•	•	•	•	•			•
M2 Topic 2 TEKS Summary								•		•		•			
Module 3 TEKS Summary													•	•	
M3 Topic 1 TEKS Summary													•	•	
M3 Topic 2 TEKS Summary															
Module 4 TEKS Summary												•			
M4 Topic 1 TEKS Summary															
M4 Topic 2 TEKS Summary												•			
Module 5 TEKS Summary	•	•	•	•											
M5 Topic 1 TEKS Summary	•	•	•	•											
M5 Topic 2 TEKS Summary															
M5 Topic 3 TEKS Summary															
M5 Topic 4 TEKS Summary															

Grade 8 TEKS Summary by Module	8.2A	8.2B	8.2C	8.2D	8.3A	8.3B	8.3C	8.4A	8.4B	8.4C	8.5A	8.5B	8.5C	8.5D	8.5E
Module 1 TEKS Summary					•	•	•								
Module 2 TEKS Summary							•	•	•	•	•	•			•
Module 3 TEKS Summary													•	•	
Module 4 TEKS Summary												•			
Module 5 TEKS Summary	•	•	•	•											

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