



Texas Accelerated Grade 7: Course Pacing Guide

*1 Day Pacing = 45 min. Session

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Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 1: Transforming Geometric Objects				
Topic 1: Rigid Motion Transformations				
1	Patty Paper, Patty Paper	Introduction to Congruent Figures	8.10A	1
2	Slides, Flips, and Spins	Introduction to Rigid Motions	8.10A 8.10B	3
3	Lateral Moves	Translations of Figures on the Coordinate Plane	8.10A 8.10C	2
4	Mirror, Mirror	Reflections of Figures on the Coordinate Plane	8.10A 8.10C	2
5	Half Turns and Quarter Turns	Rotations of Figures on the Coordinate Plane	8.10A 8.10C	2
6	Every Which Way	Combining Rigid Motions	8.10A 8.10C	2
End of Topic Assessment				1
Topic 2: Similarity				
1	Pinch-Zoom Geometry	Dilations of Figures	8.3A 8.10A	2
2	Rising, Running, Stepping, Scaling	Dilating Figures on the Coordinate Plane	8.3B 8.3C 8.10B	3
3	From Here to There	Mapping Similar Figures Using Transformations	8.3C 8.10A 8.10B 8.10C	2
End of Topic Assessment				1
Topic 3: Line and Angle Relationships				
1	Special Delivery	Special Angle Relationships	7.11C	1
2	Pulling a One-Eighty!	Triangle Sum and Exterior Angle Theorems	7.11C 8.8D	1
3	Crisscross Applesauce	Angle Relationships Formed by Lines Intersected by a Transversal	8.8D	2
4	The Vanishing Point	The Angle-Angle Similarity Theorem	8.8D	1
End of Topic Assessment				1



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Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 2: Developing Function Foundations				
Topic 1: From Proportions to Linear Relationships				
1	Post-Secondary Proportions	Representations of Proportional Relationships	8.4B 8.4C 8.5A 8.5E 8.5H	2
2	Jack and Jill Went Up the Hill	Using Similar Triangles to Describe Steepness of a Line	8.4A 8.4B 8.4C 8.5F 8.5H	3
3	Slippery Slopes	Exploring Slopes Using Similar Triangles	8.4A	2
4	Up, Down, and All Around	Transformations of Lines	8.10C 8.10D	2
End of Topic Assessment				1
Topic 2: Two-Step Equations and Inequalities				
1	Picture Algebra	Modeling Equations as Equal Expressions	7.10B 7.11A	1
2	Expressions That Play Together...	Solving Equations on a Double Number Line	7.10B 7.11A	1
3	Formally Yours	Using Inverse Operations to Solve Equations	7.10A 7.10C 7.11A 7.11B	3
4	Be Greater Than	Solving Inequalities with Inverse Operations	7.10A 7.10C 7.11A 7.11B	3
End of Topic Assessment				1



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Topic 3: Multiple Representations of Equations				
1	Put It on the Plane	Representing Equations with Tables and Graphs	7.7A 7.10A 7.11A	2
2	Stretches, Stacks, and Structure	Structure of Linear Equations	7.7A 7.10A 7.11A	3
3	Deep Flight I	Building Inequalities and Equations to Solve Problems	7.4A 7.7A 7.10A 7.11A	2
4	Texas Tea and Temperature	Using Multiple Representations to Solve Problems	7.4A 7.7A 7.10C	2
End of Topic Assessment				1
Topic 4: Linear Relationships				
1	U.S. Shirts	Using Tables, Graphs, and Equations	8.5B 8.5I	2
2	At the Arcade	Linear Relationships in Tables	8.4A 8.4C 8.5F	2
3	Dining, Dancing, Driving	Linear Relationships in Context	8.4C	1
4	Derby Day	Slope-Intercept Form of a Line	8.4C 8.5I	2
End of Topic Assessment				1
Topic 5: Introduction to Functions				
1	Patterns, Sequences, Rules...	Analyzing Sequences as Rules	8.5G	1
2	Once Upon a Graph	Analyzing the Characteristics of Graphs of Relationships	8.5G	2
3	One or More Xs to One Y	Defining Functional Relationships	8.5G	3
4	Over the River and Through the Woods	Describing Functions	8.4C 8.5B 8.5F 8.5I	2
5	Comparing Apples to Oranges	Comparing Functions Using Different Representations	8.4C	1



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End of Topic Assessment				1



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Module 3: Modeling Linear Equations				
Topic 1: Patterns in Bivariate Data				
1	Pass the Squeeze	Analyzing Patterns in Scatter Plots	8.5C 8.11A	2
2	Where Do You Buy Your Books?	Drawing Lines of Best Fit	8.5C 8.5D	1
3	Mia Is Growing Like a Weed	Analyzing Lines of Best Fit	8.5D 8.5I	2
4	The Stroop Test	Comparing Slopes and Intercepts of Data from Experiments	8.5D 8.5I	1
End of Topic Assessment				1
Topic 2: Solving Linear Equations				
1	Strategic Solving	Equations with Variables on Both Sides	8.8C	2
2	MP3s and DVDs	Analyzing and Solving Linear Equations	8.8A 8.8C	2
3	Tic-Tac-Bingo	Creating Linear Equations	8.8C	1
End of Topic Assessment				1
Topic 3: Systems of Linear Equations				
1	Crossing Paths	Point of Intersection of Linear Graphs	8.9A	2
2	The Road Less Traveled	Systems of Linear Equations	8.9A	2
3	Rockin' Roller Rinks	Choosing a Method to Solve a Linear System	8.8B 8.9A	2
End of Topic Assessment				1



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Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 4: Applying Powers				
Topic 1: Real Numbers				
1	So Many Numbers, So Little Time	Sorting Numbers	8.2A	1
2	Rational Decisions	Rational and Irrational Numbers	8.2A 8.2D	2
3	What Are Those!?	The Real Numbers	8.2A 8.2B 8.2D	2
4	The Big and Small of It	Scientific Notation	8.2C	2
End of Topic Assessment				1
Topic 2: The Pythagorean Theorem				
1	The Right Triangle Connection	The Pythagorean Theorem	8.6C	2
2	Can That Be Right?	The Converse of the Pythagorean Theorem	8.7C	1
3	Pythagoras Meets Descartes	Distances in a Coordinate System	8.7D	1
4	Catty Corner	Side Lengths in Two and Three Dimensions	8.7C 8.7D	2
End of Topic Assessment				1
Topic 3: Three-Dimensional Figures				
1	Hey, Mister, Got Some Bird Seed?	Volume of Pyramids	7.8A 7.8B 7.9A	2
2	The Sound of Surface Area	Surface Area of Pyramids	7.9A 7.9D	2
3	More Than Four Sides of the Story	Volume and Surface Area of Prisms and Pyramids	7.9A 7.9C 7.9D	2
End of Topic Assessment				1
Topic 4: Volume of Curved Figures				
1	Can I Have a Drum Roll, Please?	Volume and Surface Area of a Cylinder	8.6A 8.7A 8.7B	2
2	Cone of Silence	Volume of a Cone	8.6B 8.7A	2



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Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
3	Pulled in All Directions	Volume of a Sphere	8.7A	2
4	Silos, Frozen Yogurt, and Popcorn	Volume Problems with Cylinders, Cones, and Spheres	8.7A	2
End of Topic Assessment				1

Module 5: Analyzing Populations, Probabilities, and Potential

Topic 1: Introduction to Probability

1	Rolling, Rolling, Rolling...	Defining and Representing Probability	7.6E	2
2	Give the Models a Chance	Probability Models	7.6I	2
3	Toss the Cup	Determining Experimental Probability of Simple Events	7.6C 7.6D 7.6H	2
4	A Simulating Conversation	Simulating Simple Experiments	7.6B 7.6C 7.6D	2
End of Topic Assessment				1

Topic 2: Compound Probability

1	Evens or Odds?	Using Arrays to Organize Outcomes	7.6A 7.6C 7.6D	2
2	Three Girls and No Boys?	Using Tree Diagrams	7.6A 7.6C 7.6D	1
3	Pet Shop Probability	Determining Compound Probability	7.6A 7.6D	1
4	On a Hot Streak	Simulating Probability of Compound Events	7.6B 7.6C 7.6D	2
End of Topic Assessment				1

Topic 3: Drawing Inferences

1	We Want to Hear From You!	Collecting Random Samples	7.6F 7.12B	2
2	Tiles, Gumballs, and Pumpkins	Using Random Samples to Draw Inferences	7.6F 7.12B	2



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Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
3	A Picture Is Worth a Thousand Words	Bar Graphs	7.6G 7.6H 7.12C	2
4	Spicy or Dark?	Comparing Two Populations	7.6G 7.12A	2
5	Finding Your Spot to Live	Using Random Samples from Two Populations to Draw Conclusions	7.6F 7.12C	2
End of Topic Assessment				1
Topic 4: Financial Literacy: Your Financial Future				
1	Terms of Financial Endearment	Simple and Compound Interest	8.12C 8.12D	1
2	On Good Terms	Terms of a Loan	8.12A 8.12E 8.12F	1
3	Tech Savvy and Responsible	Online Calculators	8.12A 8.12B 8.12F	1
4	Why All the Fuss Over Post-Secondary Education?	Financing Your Education	8.12G	1
End of Topic Assessment				1