

7th Grade Pacing Guide 2016-2017

Est. Days	Standard	CALC.	1st Six Weeks-Rational Numbers
30	7.NS.A.1		Opposite Quantities Combine to Make Zero
			Using the Number Line to Model the Addition of Integers
			Understanding Addition of Integers
			Efficiently Adding Integers and Other Rational Numbers
			Understanding Subtraction of Integers and Other Rational Numbers
			The Distance Between Two Rational Numbers
			Addition and Subtraction of Rational Numbers
			Applying the Properties of Operations to Add and Subtract Rational Numbers
	7.NS.A.2	NO	Understanding Multiplication of Integers
			Develop Strategies for Multiplying Signed Numbers
			Division of Integers
			Converting Between Fractions and Decimals Using Equivalent Fractions
			Converting Rational Numbers to Decimals Using Long Division
			Multiplication and Division of Rational Numbers
			Applying the Properties of Operations to Multiply and Divide Rational Numbers
	7.NS.A.3	NO	Comparing Tape Diagram Solutions to Algebraic Solutions
	7.EE.A.2	NO	Writing, Evaluating, and Finding Equivalent Expressions with Rational Numbers
	7.EE.B.4a	NO	Investments-Performing Operations with Rational Numbers
			If Then Moves with Integer Number Cards
			Solving Equations Using Algebra
Est. Days	Standard	CALC.	2nd Six Weeks-Ratios and Proportions
30	7.RP.A.2a	YES	An Experience in Relationships as Measuring Rate
			Proportional Relationships
			Identifying Proportional and Non-Proportional Relationships in Tables
			Identifying Proportional and Non-Proportional Relationships in Graphs.
	7.RP.A.2b	NO	Unit Rate as the Constant of Proportionality
	7.RP.A.2c	NO	Representing Proportional Relationships with Equations
	7.RP.A.2d	NO	Interpreting Graphs of Proportional Relationships
	7.EE.B.4a	NO	
	7.RP.A.1	YES	Ratios of Fractions and Their Unit Rates
	7.RP.A.3	YES	Finding Equivalent Ratios Given the Total Quantity
	7.EE.B.4a	YES	Multi-Step Ratio Problems
			Equations and Graphs of Proportional Relationships Involving Fractions
	7.RP.A.2b	NO	Relating Scale Drawings to Ratios and Rates
	7.G.A.1	YES	The Unit Rate as the Scale Factor
			Computing Actual Lengths from a Scale Drawing
			Computing Actual Areas from a Scale Drawing
			An Exercise in Creating a Scale Drawing
Est. Days	Standard	CALC.	3rd Six Weeks-Proportional Relationships
25	7.RP.A.1	YES	Percent

	7.RP.A.2	NO	Part of a Whole as a Percent
	7.RP.A.3	YES	Comparing Quantities with Percent
			Percent Increase and Decrease
			Finding One Hundred Percent Given Another Percent
			Fluency with Percent
	7.RP.A.1	YES	Markup and Markdown Problems
	7.RP.A.2		Percent Error Problems
	7.RP.A.3	YES	Problem Solving When the Percent Changes
			Simple Interest
			Tax, Commissions, Fees, and Other Real-World Percent Problems
	7.RP.A.2	NO	The Scale Factor as a Percent for a Scale Drawing
	7.G.A.1	YES	Changing Scales
			Computing Actual Lengths from a Scale Drawing
			Solving Area Problems Using Scale Drawings
	7.RP.A.2	NO	Population Problems
	7.RP.A.3	YES	Mixture Problems
	7.EE.B.3	YES	Counting Problems
Est. Days	Standard	CALC.	4th Six Weeks-Expressions and Equations
35	7.EE.A.1	NO	Generating Equivalent Expressions
	7.EE.A.2	NO	Writing Products as Sums and Sums as Products
			Using the Identity and Inverse to Write Equivalent Expressions
			Collecting Rational Number Like Terms
	7.EE.B.3	YES	Understanding Equations
	7.EE.B.4		Using If-Then Moves in Solving Equations
	7.G.B.5		Angle Problems and Solving Equations
			Properties of Inequalities
			Inequalities
			Solving Inequalities
			Graphing Solutions to Inequalities
	7.G.B.4		The Most Famous Ratio of All
	7.G.B.6	YES	The Area of a Circle
			More Problems on Area and Circumference
			Unknown Area Problems on the Coordinate Plane
			Composite Area Problems
			Surface Area
			The Volume of a Right Prism
			Volume and Surface Area
Est. Days	Standard	CALC.	5th Six Weeks-Statistics and Probability
25	7.SP.C.5	YES	Chance Experiments
	7.SP.C.6	YES	Estimating Probabilities by Collecting Data
	7.SP.C.7	YES	Chance Experiments with Equally Likely Outcomes
	7.SP.C.8a	YES	Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
	7.SP.C.8b	YES	Chance Experiments with Outcomes That Are Not Equally Likely
			Using Tree Diagrams to Represent a Sample Space and to Calculate Probabilities

			Calculating Probabilities of Compound Events
	7.SP.C.6	YES	The Difference Between Theoretical Probabilities and Estimated Probabilities
	7.SP.C.7	YES	Comparing Estimated Probabilities to Probabilities Predicted by a Model
	7.SP.C.8c	YES	Conducting a Simulation to Estimate the Probability of and Event
			Applying Probability to Make Informed Decisions
	7.SP.A.1	YES	Populations, Samples , and Generalizing from a Sample to a Population
	7.SP.A.2	YES	Selecting a Sample
	7.SP.C.8c	YES	Random Sampling
			Methods for Selecting a Random Sample
			Sampling Variability
			Sampling Variability and the Effect of Sample Size
			Understanding Variability When Estimating a Population Proportion
			Estimating a Population Proportion
	7.SP.B.3	YES	Why Worry About Sampling Variability?
	7.SP.B.4	YES	Using Sample Data to Compare the Means of Two or More Populations
Est. Days	Standard	CALC.	6th Six Weeks-Geometry
35	7.G.B.5		Complementary and Supplementary Angles
			Solve for Unknown Angles using Equations
	7.G.A.2	YES	Unique Triangles
			Drawing Geometric Shapes
			Drawing Parallelograms
			Drawing Triangles
			Conditions for a Unique Triangle - Three Sides and Two Sides and the Included Angle
			Conditions for a Unique Triangle - Two Angles and a Given Side
			Conditions on Measurements that Determine a Triangle
			Unique Triangles - Two sides and a Non-Included Angle
			Checking for Identical Triangles
			Using Unique Triangles to Solve Real World and Mathematical Problems
	7.G.A.3	YES	Slicing a Right Rectangular Prism with a Plane
			Slicing a Right Rectangular Pyramid with a Plane
			Slicing on an Angle
			Understanding Three Dimensional Figures
	7.G.B.6	YES	Real World Area Problems
			Mathematical Area Problems
			Area Problems with Circular Regions
			Surface Area
			Volume of Right Prisms
			Volume of Composite three Dimensional Objects
			Real World Volume Problems