

TENNESSEE STANDARDS CORRELATION

Proposed Scope & Sequence



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Grade 6 Tennessee Mathematics Standards Correlated to Amplify Math, Grade 6

The following correlation shows the alignment of Amplify Math, grade 6 to the Tennessee Math Standards for grade 6.

		Digital Lesson	Teacher Edition PDF	
Ratios and Proportional Relationships				
6.RP.A. Understand ratio concepts and use ratio reasoning to solve problems.				
6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. Make a distinction between ratios and fractions. For example, the ratio of wings to beaks in a bird house at the zoo was 2:1, because for every 2 wings there was 1 beak. Another example could be for every vote candidate A received, candidate C received nearly three votes.	-	-	
		Unit 2: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 1	Digital Lesson	Teacher Edition PDF
6.RP.A.2	Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$. Use rate language in the context of a ratio relationship. For example, this recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar. Also, we paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger. (Expectations for unit rates in 6th grade are limited to non-complex fractions).	Unit 6: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).	Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 1	Digital Lesson	Teacher Edition PDF
Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF		
Unit 8: Lesson 7B	Digital Lesson	Teacher Edition PDF		

Grade 6 units

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
6.RP.A.3a	Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Unit 2: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF
6.RP.A.3b	Solve unit rate problems including those involving unit pricing and constant speed. For example, if a runner runs 10 miles in 90 minutes, how long will it take him to run 6 miles? How fast is he running in miles per hour?	Unit 3: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF
		6.RP.A.3c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Unit 3: Lesson 1
Unit 3: Lesson 8	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 9	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 10	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 11	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 12	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 13	Digital Lesson			Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
6.RP.A.3c (continued)		Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7B	Digital Lesson	Teacher Edition PDF
The Number System				
6.NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.				
6.NS.A.1 Interpret and compute quotients of fractions and solve contextual problems involving division of fractions by fractions (e.g., connecting visual fraction models and equations to represent the problem is suggested). For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div 3/4 = 8/9$ because $3/4$ of $8/9$ is $2/3$ ($(a/b) \div (c/d) = ad/bc$). Further example: How much chocolate will each person get if 3 people share $1/2$ lb. of chocolate equally? How many $3/4$ cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mile and area $1/2$ square mile?	Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF	
	Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF	
Unit 4: Lesson 17	Digital Lesson	Teacher Edition PDF		
6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.				
6.NS.B.2 Fluently divide multi-digit numbers using a standard algorithm.	Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF	
	Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF	
	Unit 5: Lesson 11	Digital Lesson	Teacher Edition PDF	

Grade 6 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF			
6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using a standard algorithm and making connections to previous conceptual work with each operation.	Unit 5: Lesson 1	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 2	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 12	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF		
		Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF		
		6.NS.B.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as $4(9 + 2)$.	Unit 2: Lesson 9	Digital Lesson	Teacher Edition PDF
				Unit 2: Lesson 10	Digital Lesson	Teacher Edition PDF
		6.NS.C Apply and extend previous understanding of numbers to the system of rational numbers.				
6.NS.C.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of zero in each situation as well as describing situations in which opposite quantities can combine to make 0.	Unit 7: Lesson 2	Digital Lesson	Teacher Edition PDF		
		Unit 7: Lessons 6	Digital Lesson	Teacher Edition PDF		

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.NS.C.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	Unit 7: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
6.NS.C.6a	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself. For example, $-(-3) = 3$, and that 0 is its own opposite.	Unit 7: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
6.NS.C.6b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	Unit 7: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 16	Digital Lesson	Teacher Edition PDF
6.NS.C.6c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	Unit 7: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 17	Digital Lesson	Teacher Edition PDF
6.NS.C.7	Understand ordering and absolute value of rational numbers.	Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
6.NS.C.7a	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	Unit 7: Lesson 4	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.NS.C.7b	Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C .	Unit 7: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 10	Digital Lesson	Teacher Edition PDF
6.NS.C.7c	Understand the absolute value of a rational number as its distance from 0 on the number line and distinguish comparisons of absolute value from statements about order in a real-world context. For example, an account balance of -24 dollars represents a greater debt than an account balance -14 dollars because -24 is located to the left of -14 on the number line.	Unit 7: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 15	Digital Lesson	Teacher Edition PDF
6.NS.C.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	Unit 7: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 19	Digital Lesson	Teacher Edition PDF
Expressions and Equations				
6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.				
6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.	Unit 1: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.EE.A.2	Write, read, and evaluate expressions in which variables stand for numbers.	Unit 1: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
6.EE.A.2a	Write expressions that record operations with numbers and with variables. For example, express the calculation “Subtract y from 5” as $5 - y$.	Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
6.EE.A.2b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.	Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
6.EE.A.2c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).	Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 16	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF
6.EE.A.3	Apply the properties of operations (including, but not limited to, commutative, associative, and distributive properties) to generate equivalent expressions. (The distributive property of multiplication over addition is prominent here. Negative coefficients are not an expectation at this grade level.) For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	Unit 6: Lesson 11	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson Teacher Edition PDF
6.EE.A.4	Identify when expressions are equivalent (i.e., when the expressions name the same number regardless of which value is substituted into them). For example, the expression $5b + 3b = (5 + 3)b = 8b$.	Unit 5: Lesson 13	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson Teacher Edition PDF
6.EE.B Reason about and solve one-variable equations and inequalities.		-	-
6.EE.B.5	Understand that a solution to an equation or inequality is the value(s) that makes that statement true. Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	Unit 6: Lesson 4	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 6	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 8	Digital Lesson Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson Teacher Edition PDF
		Unit 7: Lesson 11	Digital Lesson Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number or, depending on the purpose at hand, any number in a specified set.	Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lessons 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lessons 7	Digital Lesson	Teacher Edition PDF
		Unit 6: Lessons 8	Digital Lesson	Teacher Edition PDF
		Unit 6: Lessons 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson	Teacher Edition PDF
6.EE.B.7	Solve real-world and mathematical problems by writing and solving one-step equations of the form $x + p = q$, $px = q$, $x - p = q$, and $x/p = q$ for cases in which p , q , and x are all nonnegative rational numbers and $p \neq 0$. (Complex fractions are not an expectation at this grade level.)	Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 9	Digital Lesson	Teacher Edition PDF
6.EE.B.8	Interpret and write an inequality of the form $x > c$, $x < c$, $x \leq c$, or $x \geq c$ which represents a condition or constraint in a real-world or mathematical problem. Recognize that inequalities have infinitely many solutions; represent solutions of inequalities on number line diagrams.	Unit 7: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.EE.C Represent and analyze quantitative relationships between dependent and independent variables.				
6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another. For example, Susan is putting money in her savings account by depositing a set amount each week (\$50). Represent her savings account balance with respect to the number of weekly deposits ($s = 50w$, illustrating the relationship between balance amount s and number of weeks w).	Unit 6: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF
6.EE.C.9a	Write an equation in the form of $y = px$ where y , p , and x are all non-negative and $p \neq 0$, to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable.	Unit 6: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF
6.EE.C.9b	Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.	Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF

Geometry

6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.

6.G.A.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.G.A.1	(continued)	Unit 1: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF
6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = Bh$, where B is the area of the base, to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	Unit 4: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 16	Digital Lesson	Teacher Edition PDF
6.G.A.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side that joins two vertices (vertical or horizontal segments only). Apply these techniques in the context of solving real-world and mathematical problems.	Unit 7: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 19	Digital Lesson	Teacher Edition PDF
6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	Unit 1: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 20	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
Statistics and Probability				
6.SP.A Develop understanding of statistical variability.				
6.SP.A.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, “How old am I?” is not a statistical question, but “How old are the students in my school?” is a statistical question because one anticipates variability in students’ ages.	Unit 8: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
6.SP.A.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its measures of center (mean, median, mode), measures of variation (range only), and overall shape.	Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 12	Digital Lesson	Teacher Edition PDF
6.SP.A.3	Recognize that a measure of center (mean, median, mode) for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	Unit 8: Lesson 7A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 12	Digital Lesson	Teacher Edition PDF
6.SP.B Summarize and describe distributions.				
6.SP.B.4	Display a single set of numerical data using dot plots (line plots), box plots, pie charts and stem plots.	Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 15	Digital Lesson	Teacher Edition PDF
6.SP.B.5	Summarize numerical data sets in relation to their context.	Unit 8: Lesson 15	Digital Lesson	Teacher Edition PDF

Grade 6 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
6.SP.B.5a	Report the number of observations.	Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
6.SP.B.5b	Describe the nature of the attribute under investigation, including how it was measured and its units of measurement.	Unit 8: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 11	Digital Lesson	Teacher Edition PDF
6.SP.B.5c	Give quantitative measures of center (median and/or mean) and variability (range) as well as describing any overall pattern with reference to the context in which the data were gathered.	Unit 8: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 12A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 17	Digital Lesson	Teacher Edition PDF
6.SP.B.5d	Relate the choice of measures of center to the shape of the data distribution and the context in which the data were gathered.	Unit 8: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 17	Digital Lesson	Teacher Edition PDF

Grade 7 Tennessee Mathematics Standards Correlated to Amplify Math, Grade 7

The following correlation shows the alignment of Amplify Math, grade 7 to the Tennessee Math Standards for grade 7.

Note: Lessons with page numbers that are preceded by a "TN" are Tennessee-specific lessons.

		Digital Lesson	Teacher Edition PDF	
Ratios and Proportional Relationships				
7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.				
7.RP.A.1	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units. For example, if a person walks $\frac{1}{2}$ mile in $\frac{1}{4}$ hour, compute the unit rate as the complex fraction $(\frac{1}{2})/(\frac{1}{4})$ miles per hour, equivalently 2 miles per hour.	Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 7	Digital Lesson	Teacher Edition PDF
7.RP.A.2	Recognize and represent proportional relationships between quantities.	Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 15	Digital Lesson	Teacher Edition PDF
	Unit 2: Lesson 16	Digital Lesson	Teacher Edition PDF	
	Unit 2: Lesson 17	Digital Lesson	Teacher Edition PDF	

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.RP.A.2	(continued)	Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 16	Digital Lesson	Teacher Edition PDF
7.RP.A.2a	Decide whether two quantities are in a proportional relationship (e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin).	Unit 2: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
7.RP.A.2b	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	Unit 2: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.RP.A.2c	Use the concept of equality to represent proportional relationships with equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p , the relationship between the total cost and the number of items can be expressed as $t = pn$.	Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 20	Digital Lesson	Teacher Edition PDF
		Digital Lesson	Teacher Edition PDF	
7.RP.A.2d	Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.	-	-	
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
7.RP.A.3	Use proportional relationships to solve multi-step ratio and percent problems. Examples: batting averages, recipes, simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error, etc.	Unit 2: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.RP.A.3	(continued)	Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF

The Number System

7.NS.A. Apply and extend previous understanding of operations with fractions to add, subtract, multiply, and divide rational numbers.

7.NS.A.1	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
7.NS.A.1a	Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.NS.A.1b	Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference and apply this principle in real-world contexts.	Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
7.NS.A.1c	Apply properties of operations as strategies to add and subtract rational numbers.	Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.	-	-	-
		Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF
7.NS.A.2a	Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 12	Digital Lesson	Teacher Edition PDF
7.NS.A.2b	Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real world contexts.	Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.NS.A.2c	Apply properties of operations as strategies to multiply and divide rational numbers.	Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
7.NS.A.2d	Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in zeros or eventually repeats.	Unit 5: Lesson 16	Digital Lesson	Teacher Edition PDF
7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers. (Computations with rational numbers extend the rules for manipulating fractions to complex fractions.)	Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF

Expressions and Equations

7.EE.A Use properties of operations to generate equivalent expressions.

7.EE.A.1	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 22	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.EE.A.2	Rewrite and connect equivalent expressions in different forms in a contextual problem to provide multiple ways of interpreting the problem and how the quantities in it are related. For example, shoes are on sale at a 25% discount. How is the discounted price p related to the original cost c of the shoes? $c - 0.25c = p$. In other words, p is 75% of the original cost since $c - 0.25c$ can be written as $0.75c$.	Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 23	Digital Lesson	Teacher Edition PDF
7.EE.B Solve real-world and mathematical problems using numerical and algebraic expressions and equations and inequalities.				
7.EE.B.3	Solve multi-step real-world and mathematical problems posed with positive and negative rational numbers presented in any form (whole numbers, fractions, and decimals).	Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
7.EE.B.3a	Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate.	Unit 6: Lesson 23	Digital Lesson	Teacher Edition PDF
7.EE.B.3b	Assess the reasonableness of answers using mental computation and estimation strategies.	Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.EE.B.4	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.	Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 7	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.EE.B.4a	Solve real-world and mathematical problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?	Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		7.EE.B.4b	Solve real-world and mathematical problems leading to inequalities of the form $px + q > r$, $px + q < r$, $px + q \geq r$, and $px + q \leq r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality on a number line and interpret it in the context of the problem. For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.	Unit 6: Lesson 15
Unit 6: Lesson 16	Digital Lesson			Teacher Edition PDF
Unit 6: Lesson 17	Digital Lesson			Teacher Edition PDF
Unit 6: Lesson 18	Digital Lesson			Teacher Edition PDF

Geometry

7.G.A Draw, construct, and describe geometrical figures and describe the relationships between them.

7.G.A.1	Solve problems involving scale drawings of congruent and similar geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	Unit 1: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.G.A.1	(continued)	Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
7.G.A.2	Draw triangles with given conditions: three angle measures or three side measures. Notice when the conditions determine a unique triangle, more than one triangle, or no triangle.	Unit 3: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson	Teacher Edition PDF
7.G.B. Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.				
7.G.B.3	Know the formulas for the area and circumference of a circle and use them to solve problems. Explore the relationships between the radius, the circumference, and the area of a circle, and the number π .	Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 12	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.G.B.4	Know and use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	Unit 7: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 6	Digital Lesson	Teacher Edition PDF
7.G.B.5	Solve real-world and mathematical problems involving area of two-dimensional objects composed of triangles, quadrilaterals, and polygons, and volume and surface area of three-dimensional objects composed of cubes and right prisms.	Unit 2: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 14	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 15	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 16	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 17	Digital Lesson	Teacher Edition PDF
		Unit 7: Lessons 18	Digital Lesson	Teacher Edition PDF

Statistics and Probability

7.SP.A Use random sampling to draw inferences about a population.

7.SP.A.1	Explore how statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.	Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 10C	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 17	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
7.SP.A.2	Collect and use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be.	Unit 8: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 17	Digital Lesson	Teacher Edition PDF
7.SP.B Draw informal comparative inferences about two populations.				
7.SP.B.3	Informally compare the measures of center (mean, median, mode) of two numerical data distributions with similar variabilities. For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team; on a dot plot or box plot, the separation between the two distributions of heights is noticeable.	Unit 8: Lesson 10B	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 13	Digital Lesson	Teacher Edition PDF
7.SP.B.4	Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. For example, decide whether the words in a chapter of a 7th grade science book are generally longer than the words in a chapter of a 4th grade science book.	Unit 8: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 14A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 16	Digital Lesson	Teacher Edition PDF
7.SP.C Investigate chance processes and develop, use, and evaluate probability models.				
7.SP.C.5	Recognize that the probability of a chance event is a number between 0 and 1 and interpret the likelihood of the event occurring.	Unit 8: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
7.SP.C.6	Calculate theoretical and experimental probability of simple events.	Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
7.SP.C.6a	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.	Unit 8: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
7.SP.C.6b	Calculate the theoretical probability of a simple event.	Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
7.SP.C.6c	Compare theoretical probabilities to experimental probabilities; explain any possible sources of discrepancy. For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.	Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
7.SP.C.7	Develop a probability model and use it to find experimental or theoretical probabilities of events.	Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
7.SP.C.7a	Use a uniform probability model, with equal probability assigned to all outcomes, to determine probabilities of events. For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.	Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF

Grade 7 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
7.SP.C.7b	Develop a probability model, including non-uniform models, by observing frequencies in data generated from a chance process. Use the model to estimate the probabilities of events. For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?	Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
7.SP.D Summarize and describe numerical data sets.				
7.SP.D.8	Summarize a numerical data set in relation to its context.	Unit 8: Lesson 14A	Digital Lesson	Teacher Edition PDF
7.SP.D.8a	Give quantitative measures of center (median and/or mean) and variability (range and/or interquartile range), and describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	Unit 8: Lesson 10A	Digital Lesson	Teacher Edition PDF
7.SP.D.8b	Relate and understand the choice of measures of center (median and/or mean) and variability (range and/or interquartile range) to the shape of the data distribution and the context in which the data were gathered.	Unit 8: Lesson 10A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 14A	Digital Lesson	Teacher Edition PDF

Grade 8 Tennessee Mathematics Standards

Correlated to Amplify Math, Grade 8

The following correlation shows the alignment of Amplify Math, grade 8 to the Tennessee Math Standards for grade 8.

Note: Lessons with page numbers that are preceded by a "TN" are Tennessee-specific lessons.

		Digital Lesson	Teacher Edition PDF	
The Number System				
8.NS.A Know that there are numbers that are not rational, and approximate them with rational numbers.				
8.NS.A.1	Know that real numbers that are not rational are called irrational (e.g., π , $\sqrt{2}$, etc.). Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually or terminates, and convert a decimal expansion which repeats eventually or terminates into a rational number.	Unit 7: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 8	Digital Lesson	Teacher Edition PDF
8.NS.A.2	Use rational approximations of irrational numbers to compare the size of irrational numbers by locating them approximately on a number line diagram. Estimate the value of irrational expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	Unit 7: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
Expressions and Equations				
8.EE.A Work with radicals and integer exponents.				
8.EE.A.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.	Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 7	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
8.EE.A.1	(continued)	Unit 6: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
8.EE.A.2	Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes.	Unit 7: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 6	Digital Lesson	Teacher Edition PDF
8.EE.A.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities and to express how many times as much one is than the other. For example, estimate the population of the United States as 3×10^8 and the population of the world as 7×10^9 and determine that the world population is more than 20 times larger.	Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
8.EE.A.4	Using technology, solve real-world problems with numbers expressed in decimal and scientific notation. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading).	Unit 6: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
8.EE.B Understand the connections between proportional relationships, lines, and linear equations.				
8.EE.B.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.	Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
8.EE.B.6	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .	Unit 2: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 19	Digital Lesson	Teacher Edition PDF
8.EE.C Analyze and solve linear equations, linear inequalities, and systems of two linear equations.				
8.EE.C.7	Solve linear equations in one variable.	Unit 3: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
8.EE.C.7a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).	Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
8.EE.C.7b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	Unit 4: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
8.EE.C.8	Analyze and solve systems of two linear equations graphically.	Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
8.EE.C.8a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Unit 3: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF
8.EE.C.8b	Estimate solutions by graphing a system of two linear equations in two variables. Identify solutions by inspecting graphs of a system of linear equations in two variables.	Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF
8.EE.C.9	By graphing on the coordinate plane or by analyzing a given graph, determine the solution set of a linear inequality in one or two variables.	Unit 3: Lesson 17A	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
Functions		-	-	
8.F.A Define, evaluate, and compare functions.		-	-	
8.F.A.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. (Function notation is not required in Grade 8.)	Unit 5: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 20	Digital Lesson	Teacher Edition PDF
8.F.A.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.	Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
8.F.A.3	Know and interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1, 1), (2, 4) and (3, 9), which are not on a straight line.	Unit 3: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
8.F.B Use functions to model relationships between quantities.		-	-	
8.F.B.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 11	Digital Lesson	Teacher Edition PDF
8.F.B.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
Geometry				
8.G.A Understand and describe the effects of transformations on two-dimensional figures and use informal arguments to establish facts about angles.				
8.G.A.1	Describe the effect of translations, rotations, reflections, and dilations on two-dimensional figures using coordinates.	Unit 1: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

		Digital Lesson	Teacher Edition PDF	
8.G.A.1	(Continued)	Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 12	Digital Lesson	Teacher Edition PDF
		8.G.A.1a	Verify informally that lines are taken to lines, and determine when line segments are taken to line segments of the same length.	Unit 1: Lesson 9
Unit 1: Lesson 13	Digital Lesson			Teacher Edition PDF
Unit 1: Lesson 14	Digital Lesson			Teacher Edition PDF
8.G.A.1b	Verify informally that angles are taken to angles of the same measure.	Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 14	Digital Lesson	Teacher Edition PDF
8.G.A.1c	Verify informally that parallel lines are taken to parallel lines.	Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 14	Digital Lesson	Teacher Edition PDF
8.G.A.1d	Make connections between dilations and scale factors.	Unit 2: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
8.G.A.2	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	Unit 1: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 10	Digital Lesson	Teacher Edition PDF
8.G.B Understand and apply the Pythagorean Theorem.			-	-
8.G.B.3	Explain a model of the Pythagorean Theorem and its converse.	Unit 7: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 12	Digital Lesson	Teacher Edition PDF
8.G.B.4	Know and apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	Unit 7: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 16	Digital Lesson	Teacher Edition PDF
8.G.B.5	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	Unit 7: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 7: Lesson 14	Digital Lesson	Teacher Edition PDF
8.G.C Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.			-	-
8.G.C.6	Apply the formulas for the volumes of cones, cylinders, and spheres to solve real-world and mathematical problems.	Unit 5: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 16	Digital Lesson	Teacher Edition PDF

Grade 8 units (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
8.G.C.6	(Continued)	Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 21	Digital Lesson	Teacher Edition PDF
Statistics and Probability		-	-	-
8.SP.A Investigate patterns of association in bivariate data.				
8.SP.A.1	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	Unit 8: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
8.SP.A.2	Know that straight lines are widely used to model linear relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line and informally assess the model fit by judging the closeness of the data points to the line.	Unit 8: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF

		Digital Lesson	Teacher Edition PDF	
8.SP.A.3	Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting slopes and intercepts. For example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.	Unit 8: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7	Digital Lesson	Teacher Edition PDF
8.SP.B Investigate chance processes and develop, use, and evaluate probability models.				
8.SP.B.4	Find probabilities of and represent sample spaces for compound events using organized lists, tables, tree diagrams, and simulation.	Unit 8: Lesson 7C	Digital Lesson	Teacher Edition PDF
8.SP.B.4a	Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	Unit 8: Lesson 7B	Digital Lesson	Teacher Edition PDF
8.SP.B.4b	Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event.	Unit 8: Lesson 7A	Digital Lesson	Teacher Edition PDF
		Unit 8: Lesson 7B	Digital Lesson	Teacher Edition PDF

Algebra 1 Tennessee Mathematics Standards

Correlated to Amplify Math, Algebra 1

The following correlation shows the alignment of Amplify Math, Algebra 1 to the Tennessee Math Standards for Algebra 1. Modeling standards are indicated by the ★.

Note: Lessons with page numbers that are preceded by a "TN" are Tennessee-specific lessons.

		Digital Lesson	Teacher Edition PDF	
Quantities ★				
A1.N.Q.A Reason quantitatively and use units to solve problems.				
A1.N.Q.A.1	Use units as a way to understand real-world problems. ★	Unit 1: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
A1.N.Q.A.1a	Choose and interpret the scale and the origin in graphs and data displays. ★	Unit 3: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 20	Digital Lesson	Teacher Edition PDF
A1.N.Q.A.1b	Use appropriate quantities in formulas, converting units as necessary. ★	Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
A1.N.Q.A.1c	Define and justify appropriate quantities within a context for the purpose of modeling. ★	Unit 1: Lesson 1	Digital Lesson	Teacher Edition PDF
A1.N.Q.A.1d	Choose an appropriate level of accuracy when reporting quantities. ★	Unit 2: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 22	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

		Digital Lesson	Teacher Edition PDF	
Seeing Structure in Expressions ★				
A1.A.SSE.A Interpret the structure of expressions.				
A1.A.SSE.A.1	Interpret expressions that represent a quantity in terms of its context. ★	Unit 4: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 23	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
A1.A.SSE.A.1a	Interpret parts of an expression, such as terms, factors, and coefficients. ★	Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 5: Lessons 11A	Digital Lesson	Teacher Edition PDF
A1.A.SSE.A.1b	Interpret complicated expressions by viewing one or more of their parts as a single entity. ★	Unit 5: Lessons 23	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 21	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
Arithmetic with Polynomials and Rational Expressions ★				
A1.A.APR.A	Perform arithmetic operations on polynomials.			
A1.A.APR.A.1	Add, subtract, and multiply polynomials. Use these operations to demonstrate that polynomials form a closed system that adhere to the same properties of operations as the integers.	Unit 5: Lesson 11A	Digital Lesson	Teacher Edition PDF
Creating Equations ★				
A1.A.CED.A	Create equations that describe numbers or relationships.		Digital Lesson	Teacher Edition PDF
A1.A.CED.A.1	Create equations and inequalities in one variable and use them to solve problems in a real-world context. ★	Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 22	Digital Lesson	Teacher Edition PDF
A1.A.CED.A.2	Create equations in two variables to represent relationships between quantities and use them to solve problems in a real-world context. Graph equations with two variables on coordinate axes with labels and scales, and use the graphs to make predictions. ★	Unit 1: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 26	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 24	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

		Digital Lesson	Teacher Edition PDF	
A1.A.CED.A.3	Create individual and systems of equations and/or inequalities to represent constraints in a contextual situation, and interpret solutions as viable or non-viable. ★	Unit 1: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 24	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 25	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 26	Digital Lesson	Teacher Edition PDF
A1.A.CED.A.4	Rearrange formulas to isolate a quantity of interest using algebraic reasoning.	Unit 6: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 12	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
Reasoning with Equations and Inequalities				
A1.A.REI.A Understand solving equations as a process of reasoning and explain the reasoning.				
A1.A.REI.A.1	Understand solving equations as a process of reasoning and explain the reasoning. Construct a viable argument to justify a solution method.	Unit 1: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
A1.A.REI.B Solve equations and inequalities in one variable.				
A1.A.REI.B.2	Solve linear and absolute value equations and inequalities in one variable.	Unit 1: Lesson 14	Digital Lesson	Teacher Edition PDF
A1.A.REI.B.2a	Solve linear equations and inequalities, including compound inequalities, in one variable. Represent solutions algebraically and graphically.	Unit 1: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 12A	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
A1.A.REI.B.2b	Solve absolute value equations and inequalities in one variable. Represent solutions algebraically and graphically.	Unit 1: Lesson 12B	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 12C	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

			Digital Lesson	Teacher Edition PDF
A1.A.REI.B.3	Solve quadratic equations and inequalities in one variable.	Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 24	Digital Lesson	Teacher Edition PDF
A1.A.REI.B.3a	Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, knowing and applying the quadratic formula, and factoring, as appropriate to the initial form of the equation. Recognize when a quadratic equation has solutions that are not real numbers.	Unit 6: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 15A	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 22	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.A.REI.B.3b	Solve quadratic inequalities using the graph of the related quadratic equation.	Unit 6: Lesson 15A	Digital Lesson	Teacher Edition PDF
A1.A.REI.C Solve systems of equations.				
A1.A.REI.C.4	Write and solve a system of linear equations in context. ★	Unit 1: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 22	Digital Lesson	Teacher Edition PDF
A1.A.REI.D Represent and solve equations and inequalities graphically				
A1.A.REI.D.5	Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).	Unit 1: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
A1.A.REI.D.6	Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$. Find approximate solutions by graphing the functions or making a table of values, using technology when appropriate. ★	Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

			Digital Lesson	Teacher Edition PDF
A1.A.REI.D.7	Graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.	Unit 1: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 23	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 24	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 25	Digital Lesson	Teacher Edition PDF
		Unit 1: Lesson 26	Digital Lesson	Teacher Edition PDF

Interpreting Functions

A1.F.IF.A Understand the concept of function and use function notation.

A1.F.IF.A.1	Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then $f(x)$ denotes the output of f corresponding to the input x . The graph of f is the graph of the equation $y = f(x)$.	Unit 3: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 11	Digital Lesson	Teacher Edition PDF
A1.F.IF.A.2	Use function notation. ★	Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.F.IF.A.2	(Continued)	Unit 3: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 21	Digital Lesson	Teacher Edition PDF
A1.F.IF.A.2a	Use function notation to evaluate functions for inputs in their domains, including functions of two variables. ★	Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
A1.F.IF.A.2b	Interpret statements that use function notation in terms of a context. ★	Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
A1.F.IF.A.3	Understand geometric formulas as functions. ★	Unit 6: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 5	Digital Lesson	Teacher Edition PDF
A1.F.IF.B Interpret functions that arise in applications in terms of the context.				
A1.F.IF.B.4	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. ★	Unit 3: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

		Digital Lesson	Teacher Edition PDF
A1.F.IF.B.4	(continued)	Unit 3: Lesson 7	Teacher Edition PDF
		Unit 3: Lesson 11	Teacher Edition PDF
		Unit 3: Lesson 12	Teacher Edition PDF
		Unit 3: Lesson 13	Teacher Edition PDF
		Unit 3: Lesson 14	Teacher Edition PDF
		Unit 3: Lesson 22	Teacher Edition PDF
		Unit 4: Lesson 7	Teacher Edition PDF
		Unit 4: Lesson 8	Teacher Edition PDF
		Unit 4: Lesson 10	Teacher Edition PDF
		Unit 4: Lesson 13	Teacher Edition PDF
		Unit 5: Lesson 1	Teacher Edition PDF
		Unit 5: Lesson 2	Teacher Edition PDF
		Unit 5: Lesson 9	Teacher Edition PDF
		Unit 5: Lesson 13	Teacher Edition PDF
		Unit 5: Lesson 14	Teacher Edition PDF
		Unit 5: Lesson 15	Teacher Edition PDF
		Unit 5: Lesson 18	Teacher Edition PDF
		Unit 5: Lesson 19	Teacher Edition PDF
		Unit 5: Lesson 20	Teacher Edition PDF
		Unit 5: Lesson 22	Teacher Edition PDF
		Unit 6: Lesson 1	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.F.IF.B.5	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. ★	Unit 3: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 15	Digital Lesson	Teacher Edition PDF
		A1.F.IF.B.6	Calculate and interpret the average rate of change of a function (presented algebraically or as a table) over a specified interval. Estimate and interpret the rate of change from a graph. ★	Unit 3: Lesson 9
Unit 3: Lesson 12	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 13	Digital Lesson			Teacher Edition PDF
Unit 3: Lesson 22	Digital Lesson			Teacher Edition PDF
Unit 4: Lesson 14	Digital Lesson			Teacher Edition PDF
Unit 4: Lesson 16	Digital Lesson			Teacher Edition PDF
Unit 4: Lesson 22	Digital Lesson			Teacher Edition PDF
A1.F.IF.C Analyze functions using different representations.				
A1.F.IF.C.7	Graph functions expressed algebraically and show key features of the graph, by hand and using technology. ★	Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 14	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

		Digital Lesson	Teacher Edition PDF
A1.F.IF.C.7	(continued)	Unit 3: Lesson 15	Teacher Edition PDF
		Unit 3: Lesson 16	Teacher Edition PDF
		Unit 3: Lesson 22	Teacher Edition PDF
		Unit 4: Lesson 6	Teacher Edition PDF
		Unit 4: Lesson 7	Teacher Edition PDF
		Unit 4: Lesson 11	Teacher Edition PDF
		Unit 4: Lesson 13	Teacher Edition PDF
		Unit 4: Lesson 16	Teacher Edition PDF
		Unit 4: Lesson 20	Teacher Edition PDF
		Unit 5: Lesson 8	Teacher Edition PDF
		Unit 5: Lesson 9	Teacher Edition PDF
		Unit 5: Lesson 14	Teacher Edition PDF
		Unit 5: Lesson 15	Teacher Edition PDF
		Unit 5: Lesson 16	Teacher Edition PDF
		Unit 5: Lesson 17	Teacher Edition PDF
		Unit 5: Lesson 18	Teacher Edition PDF
		Unit 5: Lesson 20	Teacher Edition PDF
		Unit 5: Lesson 21	Teacher Edition PDF
		Unit 5: Lesson 22	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.F.IF.C.8	Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. ★	Unit 4: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 24	Digital Lesson	Teacher Edition PDF
A1.F.IF.C.8a	Rewrite quadratic functions to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a real-world context.	Unit 5: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 6: Lesson 10	Digital Lesson	Teacher Edition PDF
A1.F.IF.C.9	Compare properties of functions represented algebraically, graphically, numerically in tables, or by verbal descriptions. ★	Unit 4: Lesson 21	Digital Lesson	Teacher Edition PDF
A1.F.IF.C.9a	Compare properties of two different functions. Functions may be of different types and/or represented in different ways. ★	Unit 4: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 18	Digital Lesson	Teacher Edition PDF
A1.F.IF.C.9b	Compare properties of the same function on two different intervals or represented in two different ways. ★	Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

		Digital Lesson	Teacher Edition PDF	
Building Functions				
A1.F.BF.A Build a function that models a relationship between two quantities.				
A1.F.BF.A.1	Build a function that describes a relationship between two quantities. ★	Unit 3: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
A1.F.BF.A.1a	Determine steps for calculation, a recursive process, or an explicit expression, from a context. ★	Unit 5: Lesson 23	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 3	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.F.BF.A.1a	(continued)	Unit 5: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 23	Digital Lesson	Teacher Edition PDF
A1.F.BF.B Build new functions from existing functions.				
A1.F.BF.B.2	Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs.	Unit 3: Lesson 15	Digital Lesson	Teacher Edition PDF
		Unit 3: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 16	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 22	Digital Lesson	Teacher Edition PDF
Linear and Exponential Models ★				
A1.F.LE.A Construct and compare linear, quadratic, and exponential models and solve problems.				
A1.F.LE.A.1	Distinguish between situations that can be modeled with linear functions and with exponential functions. ★	Unit 4: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

			Digital Lesson	Teacher Edition PDF
A1.F.LE.A.1	(continued)	Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 1	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 2	Digital Lesson	Teacher Edition PDF
A1.F.LE.A.1a	Know that linear functions grow by equal differences over equal intervals and that exponential functions grow by equal factors over equal intervals. ★	Unit 4: Lesson 21	Digital Lesson	Teacher Edition PDF
A1.F.LE.A.1b	Recognize situations in which one quantity changes at a constant rate per unit interval relative to another. ★	Unit 4: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
A1.F.LE.A.1c	Recognize situations in which a quantity grows or decays by a constant factor per unit interval relative to another. ★	Unit 4: Lesson 2	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 3	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
A1.F.LE.A.2	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or input-output pairs. ★	Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 10	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF

Algebra 1 (continued)

Summary of Alignment

			Digital Lesson	Teacher Edition PDF
A1.F.LE.A.2	(continued)	Unit 4: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 18	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 5: Lesson 16	Digital Lesson	Teacher Edition PDF
A1.F.LE.B Interpret expressions for functions in terms of the situation they model.				
A1.F.LE.B.3	Interpret the parameters in a linear or exponential function in terms of a context. ★	Unit 4: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 6	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 7	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 8	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 9	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 17	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 19	Digital Lesson	Teacher Edition PDF
Interpreting Categorical and Quantitative Data ★				
A1.S.ID.A Summarize, represent, and interpret data on a single count or measurement variable.				
A1.S.ID.A.1	Use measures of center to solve real-world and mathematical problems. ★	Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF

PROPOSED SCOPE & SEQUENCE

			Digital Lesson	Teacher Edition PDF
A1.S.ID.A.2	Use statistics appropriate to the shape of the data distribution to compare center (median, mean, and/or mode) and spread (range, interquartile range) of two or more different data sets. ★	Unit 2: Lesson 4	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
A1.S.ID.A.3	Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points. ★	Unit 2: Lesson 5	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 6	Digital Lesson	Teacher Edition PDF
A1.S.ID.B Summarize, represent, and interpret data on two categorical and quantitative variables.				
A1.S.ID.B.4	Represent data from two quantitative variables on a scatter plot, and describe how the variables are related. Fit a function to the data; use functions fitted to data to solve problems in the context of the data. ★	Unit 2: Lesson 11	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 13	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 14	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 22	Digital Lesson	Teacher Edition PDF
		Unit 4: Lesson 22	Digital Lesson	Teacher Edition PDF
A1.S.ID.C Interpret linear models.				
A1.S.ID.C.5	Interpret the rate of change and the constant term of a linear model in the context of the data. ★	Unit 2: Lesson 12	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 22	Digital Lesson	Teacher Edition PDF
A1.S.ID.C.6	Use technology to compute the correlation coefficient of a linear model; interpret the correlation coefficient in the context of the data. ★	Unit 2: Lesson 19	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 20	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 22	Digital Lesson	Teacher Edition PDF
A1.S.ID.C.7	Explain the differences between correlation and causation. Recognize situations where an additional factor may be affecting correlated data. ★	Unit 2: Lesson 21	Digital Lesson	Teacher Edition PDF
		Unit 2: Lesson 22	Digital Lesson	Teacher Edition PDF



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Amplify.  desmos

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affiliated with Amplify. Amplify is not an IM Certified Partner.