

Developmentation and Communicate of Dational Numbers	Unit	CHECKPOINT				
Representation and Comparison of Rational Numbers		1	2	3		
6.2 Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms.						

Process (Table to Kraus)	Unit	CHECKPOINT				
Process (Tools to Know)	Unit	1	2	3		
6.1(A) apply math in everyday situations [®]						
6.1(B) use problem-solving models ® connected 6.1(C)						

Con	tont	Unit	CHECKPOINT				
Con	tent	Unit	1	2	3		
Repre	sentation of Rational Numbers						
6.2(A)	classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers						
Comp	arison of Rational Numbers						
6.2(D)	order a set of rational numbers arising from mathematical and real-world contexts $^{\circledR}$						
	locate, compare, and order integers and rational numbers using a number line						

Droo	000 (Mayor to Obayo)	Heit	CHECKPOINT				
PIOC	ess (Ways to Show)	Unit	1	2	3		
6.1(E)	create representations						
6.1(F)	analyze information ® connected 6.1(D), 6.1(G)						





All One wations with Detional Newsborn	Unit	CHECKPOINT				
All Operations with Rational Numbers	Onit	1	2	3		
6.3 Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying the solutions.						
Connected Knowledge and Skills 6.2						

Droo	ACC (Table to Know)	Heit	CHECKPOINT				
PIOC	CESS (Tools to Know)	Unit	1	2	3		
6.1(A)	apply math in everyday situations ®						
6.1(B)	use problem-solving models © connected 6.1(0)					

Con	tont	Heit	Cl	HECKPOI	NT
Com	lent	Unit	1	2	3
Multip	lication and Division with Positive Rational Numbers				
6.3(E)	multiply and divide positive rational numbers fluently				
6.2(E)	extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \ne 0$				
6.3(A)	recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values				
6.3(B)	determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one				
All On	erations with Integers				
7 til Op					
6.3(D)	add, subtract, multiply, and divide integers fluently				
6.2(B)	identify a number, its opposite, and its absolute value				
6.3(C)	represent integer operations with concrete models and connect the actions with the models to standardized algorithms				

Droc	VACC (IV. 1 OL)	Heit	CHECKPOINT				
PIOC	Cess (Ways to Show)	Unit	1	2	3		
6.1(E) 6.1(F)	create representations analyze information © connected 6.1(D), 6.1(G)						
6.1(F)	analyze information © connected 6.1(D), 6.1(G)						



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D	Numarational Descaping		CHECKPOINT				
>> Pro	portional Reasoning	Unit	1	2	3		
6.4	Proportionality. The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations.						
6.5	Proportionality. The student applies mathematical process standards to solve problems involving proportional relationships.						

	Process (Table to Kraw)	Unit	CHECKPOINT				
-	rocess (Tools to Know)		1	2	3		
6	1(A) apply math in everyday situations ®						
6	1(B) use problem-solving models © connected 6.1(C)						

Con	tont	1124	Cl	HECKPOII	NT
Con	tent	Unit	1	2	3
Fractio	ons/Decimals/Percents				
6.4(G)	generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money $^{\circledR}$				
6.5(B)	solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models $^{\textcircled{3}}$				
6.4(E)	represent ratios and percents with concrete models, fractions, and decimals				
6.4(F)	represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers				
6.5(C)	use equivalent fractions, decimals, and percents to show equal parts of the same whole				
Ratios	/Rates				
6.4(B)	apply qualitative and quantitative reasoning to solve prediction and comparison of realworld problems involving ratios and rates $^{\circledR}$				
6.4(C)	give examples of ratios as multiplicative comparisons of two quantities describing the same attribute				
6.4(D)	give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients				
6.5(A)	represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions [®]				
Conve	rsions				
6.4(H)	convert units within a measurement system, including the use of proportions and unit rates				

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Process (Ways to Show)		1	2	3			



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6.1(E)	create representations			
6.1(F)	analyze information igotimes	connected 6.1(D), 6.1(G)		

>> TEKS clusters typically requiring additional time and focus in the curriculum



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>> F	assiana Fanatiana and Inspiralities	Unit	CHECKPOI	IECKPOIN	JT
>> Expr	process standards to develop concepts of expressions and equations. Expressions, equations, and relationships. The student applies mathematical process standards to use equations and inequalities to represent situations.	Oilit	1	2	3
6.7					
6.9					
6.10					

Droo	000 (T. J. J. K.)	Heit	CHECKPOINT				
PIOC	ess (Tools to Know)	Unit	1	2	3		
	apply math in everyday situations ®						
6.1(B)	use problem-solving models © connected 6.1(C)						

Cont	ont.	11	Cl	HECKPOI	NT
Cont	ent	Unit	1	2	3
Order	of Operations				
6.7(A)	generate equivalent numerical expressions using order of operations, including whole number exponents, and prime factorization				
6.7(D)	generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties				
6.7(B)	distinguish between expressions and equations verbally, numerically, and algebraically				
6.7(C)	determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations				
Repres	entation and Solutions of Equations/Inequalities				
6.10(A)	model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts $^{\textcircled{\$}}$				
6.9(A)	write one-variable, one-step equations and inequalities to represent constraints or conditions within problems				
6.9(B)	represent solutions for one-variable, one-step equations and inequalities on number lines				
6.9(C)	write corresponding real-world problems given one-variable, one-step equations or inequalities				
6.10(B)	determine if the given value(s) make(s) one-variable, one-step equations or inequalities true				

Process (Marie to Ohana)	l luit	Unit CHECKPOIN	NT	
Process (Ways to Show)	Unit	1	2	3
6.1(E) create representations 6.1(F) analyze information (S) connected 6.1(D), 6.1(G)				



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Aige	braic Representations	Ollit	1	2	3
6.6	Expressions, equations, and relationships. The student applies mathematical process standards to use multiple representations to describe algebraic relationships.				
6.11	Measurement and data. The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. Connected Knowledge and Skills 6.4				
	Connected knowledge and Skills 6.4				

Droc	ACC (Table to Know)	l lait	CHECKPOINT						
FIOL	Cess (Tools to Know)	Unit	1	2	3				
6.1(A)	apply math in everyday situations ®								
6.1(B)	use problem-solving models ® connected of	1(C)							

Con	tont	Unit	CHECKPOINT			
Con	tent	Unit	1	2	3	
Coordi	inate Planes					
6.11(A)	graph points in all four quadrants using ordered pairs of rational number					
Linear	Representations					
6.6(C)	represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$					
6.4(A)	compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships					
6.6(A)	identify independent and dependent quantities from tables and graphs					
6.6(B)	write an equation that represents the relationship between independent and dependent quantities from a table					

Dro	COCC (Mayor to Ohayo)	Unit	CHECKPOINT				
PIO	Cess (Ways to Show)	Unit	1	2	3		
6.1(E)	create representations						
6.1(F)	analyze information © connected 6.1(D),	6.1(G)					





Consider and Management	l loit	CHECKPOINT			
Geometry and Measurement	Unit	1	2	3	
6.8 Expressions, equations, and relationships. The student applies mathematical process standards to use geometry to represent relationships and solve problems.					
Connected Knowledge and Skills 6.4					

Droo	ACC (Table to Kana)	Heit	CHECKPOINT				
PIOC	Process (Tools to Know)	Unit	1	2	3		
6.1(A)	apply math in everyday situations ®						
6.1(B)	use problem-solving models ® connected 6.1(C)						

Content		I I o i b	CHECKPOINT			
Con	tent	Unit	1	2	3	
Conve	rsions					
6.4(H)	convert units within a measurement system, including the use of proportions and unit rates		Data included in "Proportional Reason			
Triang	;les					
6.8(A)	extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle					
Area/	Volume					
6.8(D)	determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers $^{\textcircled{3}}$					
6.8(B)	model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes					
6.8(C)	write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers $^{\textcircled{3}}$					

Process (W. J. Ol.)	The state of the s		Cŀ	IECKPOIN	NT
Process (Ways to Show)		Unit	1	2	3
6.1(E) create representations 6.1(F) analyze information [®]	connected 6.1(D), 6.1(G)				





>> Data Analysis		Unit	CHECKPOINT				
>> Data	Analysis	Unit	1	2	3		
6.12	Measurement and data. The student applies mathematical process standards to use numerical or graphical representations to analyze problems.						
6.13	Measurement and data. The student applies mathematical process standards to use numerical or graphical representations to solve problems.						

Process (T. J. C. K.		Unit	CHECKPOINT				
PIOC	Cess (Tools to Know)	Unit	1	2	3		
6.1(A)	apply math in everyday situations ®						
6.1(B)	use problem-solving models ® connected 6	1(C)					

Conf	Content		CHECKPOINT			
Cont			1	2	3	
Repres	entation/Interpretation of Data					
6.13(A)	interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots					
6.12(A)	represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots $^{\textcircled{3}}$					
6.13(B)	distinguish between situations that yield data with and without variability					
Measu	res of Data					
6.12(C)	summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution					
6.12(D)	summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution					
6.12(B)	use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution					

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Process (Ways to Show)		Unit	1	2	3
6.1(E) create representations 6.1(F) analyze information [®]	connected 6.1(D), 6.1(G)				

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Personal Financial Literacy		CHECKPOINT			
		1	2	3	
6.14 Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor.					

Process (Tools to Know)		Hait	CHECKPOINT				
		Unit	1	2	3		
6.1(A) apply math in everyday situations [®] 6.1(B) use problem-solving models [®]	connected 6.1(C)						

Conf	Content			CHECKPOINT			
Con	tent	Unit	1	2	3		
Bankin	ng en						
6.14(A)	compare the features and costs of a checking account and a debit card offered by different local financial institutions						
6.14(B)	distinguish between debit cards and credit cards						
6.14(C)	balance a check register that includes deposits, withdrawals, and transfers						
Credit							
6.14(E)	describe the information in a credit report and how long it is retained						
6.14(F)	describe the value of credit reports to borrowers and to lenders						
6.14(D)	explain why it is important to establish a positive credit history						
Post-Se	econdary Education Planning						
6.14(G)	explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study						
6.14(H)	compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income						

Process (M. 1 Ol)	2000 (M		CHECKPOINT				
Process (Ways to Show)		Unit	1	2	3		
6.1(E) create representations 6.1(F) analyze information ®	connected 6.1(D), 6.1(G)						



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	PROCESS STANDARDS: MATHEMATICAL PROCESS STANDARDS		Unit	1	2	3	
6.1	The student uses mathematical processes to acquire and demonstrate	Tools to Know					
	mathematical understanding.	Ways to Show					

TOOLS TO VAIOW		l l miñ	CHECKPOINT		
	TOOLS TO KNOW	Unit	1	2	3
6.1(A)	apply mathematics to problems arising in everyday life, society, and the workplace $^{\circledR}$				
6.1(B)	use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution $^{\textcircled{3}}$				
6.1(C)	select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems				

WAYS TO SHOW		Unit	CH	IECKPOII	NT
	WAYS TO SHOW				
6.1(D)	communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate				
6.1(E)	create and use representations to organize, record, and communicate mathematical ideas				
6.1(F)	analyze mathematical relationships to connect and communicate mathematical ideas $^{\circledR}$				
6.1(G)	display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication				

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