



MAJOR CONTENT

The student solves problems involving the Major Content for the course with connections to the Standards for Mathematical Practice.

Major Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic
Multiply and	Divides fractions with unlike	Divides fractions with unlike	Divides fractions with	Divides fractions with
Divide	denominators and solves	denominators and solves word	common denominators and	common denominators.
Fractions	word problems.	problems with scaffolding.	solves word problems with	
6.NS.A.1			scaffolding.	
Ratio and Rate 6.RP.A.1 6.RP.A.2 6.RP.A.3	Uses ratio and rate reasoning to solve real-world and mathematical problems, including ratio, unit rate, percent, and unit conversion problems, using and connecting a variety of representations and strategies.	Uses ratio and rate reasoning to solve real-world and mathematical problems, including ratio, unit rate, percent, and unit conversion problems using a limited variety of representations and strategies.	Uses ratio and rate reasoning to solve mathematical problems, including ratio, unit rate, percent, and unit conversion problems using a limited variety of representations and strategies.	Solves problems including ratio, unit rate, percent, and unit conversion problems using a limited variety of representations and strategies.
	Finds missing values in tables and plots values on the coordinate plane.	Finds missing values in tables and locates and plots values on the coordinate plane.	Finds missing values in tables and locates and plots values on the coordinate plane.	
Rational Numbers 6.NS.C.5 6.NS.C.6 6.NS.C.7 6.NS.C.8	Understands that positive and negative numbers describe mathematical or real-world quantities which have opposite values or directions and can be represented on a number line and compared with or without the use of a number line.	Understands that positive and negative numbers describe mathematical or real-world quantities which have opposite values or directions and can be represented on a number line and compared with or without the use of a number line.	Understands that positive and negative numbers describe mathematical or real-world quantities which have opposite values or directions and can be represented on a number line.	Understands that positive and negative numbers describe mathematical or real-world quantities which have opposite values or directions and can be represented on a number line.





	Major Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
	Understands the concept of	Understands the concept of	Determines the absolute	Determines the absolute	
	and interprets the absolute	absolute value of a rational	value of a rational number.	value of a rational number.	
	value of a rational number.	number.			
	Plots ordered pairs on a	Plots ordered pairs on a	Locates or plots ordered		
	coordinate plane to solve real-	coordinate plane to solve real-	pairs on a coordinate plane		
	world and mathematical	world and mathematical	to solve mathematical		
	problems.	problems.	problems.		
	Recognizes the locations of				
	points are related by				
	reflections across one or both				
	axes when two ordered pairs				
	differ only by signs.				
	Distinguishes comparisons of				
	absolute value from				
	statements about order.				
Expressions,	Writes, reads, and evaluates	Writes, reads, and evaluates	Reads numerical and		
Inequalities,	numerical and algebraic	numerical and algebraic	algebraic expressions		
and Equations	expressions, including those	expressions, including those	including those that contain		
6.EE.A.1	that contain whole number	that contain whole number	whole number exponents.		
6.EE.A.2	exponents.	exponents.			
6.EE.A.4	Identifies parts of algebraic	Identifies parts of algebraic and	Identifies parts of algebraic	Identifies parts of	
6.EE.B.5	and numerical expressions	numerical expressions using	and numerical expressions	algebraic or numerical	
6.EE.B.6	using mathematical terms and	mathematical terms.	using mathematical terms.	expressions using	
6.EE.B.7	views one or more parts of an			mathematical terms.	
6.EE.B.8	expression as a single entity.				
6.EE.C.9	Identifies equivalent	Identifies equivalent			
	expressions using properties	expressions using properties of			
	of operations.	operations.			





	Major Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
	Uses variables to represent	Uses variables to represent	Uses variables to represent	Uses variables to	
	numbers and writes	numbers and writes	numbers and writes	represent numbers and	
	expressions and single-step	expressions and single-step	expressions (without	writes expressions	
	equations to solve real-world	equations to solve real-world	exponents) and single-step	(without exponents) and	
	and mathematical problems	or mathematical problems.	equations to solve	single-step equations to	
	and understands their		mathematical problems.	solve mathematical	
	solutions.			problems.	
	Expresses a relationship	Relates tables and graphs to	Relates tables and graphs		
	between dependent and	equations.	to equations.		
	independent variables and				
	relates tables and graphs to				
	equations.				
	Writes and graphs inequalities	Writes and graphs inequalities	Writes and graphs	Writes and graphs	
	to represent a constraint or	to represent a constraint or	inequalities to represent a	inequalities to represent a	
	condition in a real-world or	condition in a real-world or	constraint or condition in a	constraint or condition in a	
	mathematical problem.	mathematical problem.	mathematical problem.	mathematical problem.	
	Understands that there are				
	an infinite number of				
	solutions for an inequality.				





ADDITIONAL & SUPPORTING CONTENT

The student solves problems involving the Additional & Supporting Content for the course with connections to the Standards for Mathematical Practice.

	Additional & Supporting Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
Factors and	Determines greatest common	Determines greatest common	Identifies greatest	Identifies greatest common	
Multiples	factors and least common	factors and least common	common factors and least	factors and least common	
6.NS.B.4	multiples.	multiples.	common multiples.	multiples.	
	Uses the distributive property	Uses the distributive property			
	to rewrite a sum of two whole	to rewrite a sum of two			
	numbers 1-100 with a common	whole numbers 1-100 with a			
	factor as a multiple of a sum of	common factor as a multiple			
	two whole numbers with no	of a sum of two whole			
	common factor.	numbers with no common			
		factor.			
Solve Area,	Solves real-world and	Solves real-world and	Solves mathematical	Solves mathematical	
Surface Area,	mathematical problems	mathematical problems	problems involving area of	problems involving area of	
and Volume	involving area of polygons by	involving area of polygons by	polygons by either	polygons by composing	
Problems	composing into rectangles or	either composing into	composing into rectangles	into rectangles.	
6.G.A.1	decomposing into triangles and	rectangles or decomposing	or decomposing into		
6.G.A.2	other shapes.	into triangles and other	triangles and other		
6.G.A.3		shapes.	shapes.		
6.G.A.4	Determines measurements of	Determines measurements of	Determines		
	polygons in the coordinate	polygons in the coordinate	measurements of		
	plane.	plane.	polygons in the		
			coordinate plane.		
	Identifies and uses nets of	Identifies and uses nets of	Uses nets of three-		
	three-dimensional figures to	three-dimensional figures to	dimensional figures to		
	find surface area.	find surface area.	find surface area.		





	Additional & Supporting Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
	Determines volume of right	Determines volume of right	Determines volume of		
	rectangular prisms with	rectangular prisms with	right rectangular prisms		
	fractional edge lengths by	fractional edge lengths by	with fractional edge		
	packing them with unit cubes	packing them with unit cubes	lengths by packing them		
	and using formulas.	and using formulas.	with unit cubes.		
	Uses volume formulas to find	Uses volume formulas to find			
	unknown measurements.	unknown measurements.			
	Applies concepts of area and	Applies concepts of area and			
	volume to solve problems	volume to solve problems			
	without scaffolding.	with scaffolding.			
Statistical	Recognizes a statistical	Recognizes a statistical	Recognizes a statistical	Understands a set of	
Variability and	question and understands a set	question and understands a	question and understands	collected data has a	
Data	of collected data has a	set of collected data has a	a set of collected data has	distribution which can be	
Distributions	distribution which can be	distribution which can be	a distribution which can	described by its center,	
6.SP.A.1	described by its center, spread,	described by its center,	be described by its center,	spread, and overall shape.	
6.SP.A.2	and overall shape.	spread, and overall shape.	spread, and overall shape.		
6.SP.A.3	Understands the purpose of	Understands the purpose of	Understands the purpose	Understands the center of	
6.SP.B.4	center and variability and the	center and the center of a set	of center and the center	a set of data can be	
6.SP.B.5	center of a set of data can be	of data can be summarized	of a set of data can be	summarized with a single	
	summarized with a single	with a single number.	summarized with a single	number.	
	number.		number.		
	Displays numerical data in plots	Displays numerical data in	Displays numerical data	Displays numerical data on	
	on a number line, including dot	plots on a number line,	on a number line including	a number line including dot	
	plots, histograms, and box	including dot plots,	dot plots and histograms.	plots.	
	plots.	histograms, and box plots.			





	Additional & Supporting Content				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
	Summarizes numerical data	Summarizes numerical data	Summarizes numerical		
	sets in relation to a context,	sets in relation to a context,	data sets in relation to a		
	such as reporting the number	such as reporting the number	context, such as reporting		
	of observations, describing the	of observations, describing	the number of		
	nature of the attributes under	the nature of the attributes	observations, describing		
	investigation, and using	under investigation, and	and using measures of		
	measures of center and	using measures of center and	center, and using the		
	variability.	variability.	interquartile range as a		
			measure of variability.		
	Determines which measures of				
	center and variability are the				
	most appropriate for a set of				
	data.				
Operations	Fluently divide multi-digit	Fluently divide multi-digit	Divide multi-digit numbers	Divide multi-digit numbers	
with	numbers using the standard	numbers using the standard	with limited accuracy.	with limited accuracy.	
Multi-Digit	algorithm.	algorithm.			
Numbers	Fluently add, subtract, multiply,	Fluently add, subtract,	Add, subtract, multiply,	Add and subtract multi-	
6.NS.B.2	and divide multi-digit decimals	multiply, and divide multi-digit	and divide multi-digit	digit decimals with limited	
6.NS.B.3	using the standard algorithm	decimals using the standard	decimals using the	accuracy.	
	for each operation.	algorithm for each operation.	standard algorithm for		
			each operation with		
			limited accuracy.		





EXPRESSING MATHEMATICAL REASONING

In connection with course content, the student expresses course-level appropriate mathematical reasoning by constructing viable arguments, critiquing the reasoning of others and/or attending to precision when making mathematical statements.

	Expressing Mathematical Reasoning				
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic	
	In connection with the content knowledge and skills described in Major Content, the student clearly constructs and communicates a complete		In connection with the content knowledge and skills described in Major Content, the student constructs and communicates a		
LEAP.II.6.1 LEAP.II.6.2	written response based on pro multiplication and division	perties of operations; and the rel	ationships between addition and sub	otraction and between	
LEAP.II.6.3 LEAP.II.6.4	response based on concrete re	ferents provided in the prompt o lic) method, number line diagram	r constructed by the student such as ns, or coordinate plane diagrams	: diagrams that are	
LEAP.II.6.5 LEAP.II.6.6	response to a given equation, multi-step problem, proposition or conjecture Responses may include:				
LEAP.II.6.7 LEAP.II.6.8 LEAP.II.6.9	a logical approach based on a conjecture and/or stated assumptions	a logical approach based on a conjecture and/or stated assumptions	a logical approach based on a conjecture and/or stated assumptions	a faulty approach based on a conjecture and/or stated assumptions	
	a logical and complete progression of steps	a logical and complete progression of steps	a logical , but incomplete, progression of steps	an incomplete or illogical progression of steps	
	precise of calculation	precise calculation	minor calculation errors	major calculation errors	
	fluent use of grade-level vocabulary, symbols, and labels	fluent use of grade-level vocabulary, symbols, and labels	limited use of grade-level vocabulary, symbols, and labels	limited use of grade-level vocabulary, symbols, and labels	
	complete justification of a conclusion	complete justification of a conclusion	partial justification of a conclusion	partial justification of a conclusion	
	generalization of an argument or conclusion				



Louisiana Believes



	Expressing Mathematical Reasoning					
Content	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic		
	evaluating, interpreting and	evaluating, interpreting, and	evaluating the validity of			
	critiquing the validity and	critiquing the validity of	approaches and conclusions			
	efficiency of responses,	responses, reasoning,				
	reasoning, approaches, and	approaches, and conclusions				
	conclusions, using					
	mathematical connections					
	and providing counter-					
	examples where applicable					
	identifying and describing	identifying and describing	identifying and describing errors			
	errors in solutions and	errors in solutions and	in solutions			
	presenting correct solutions	presenting correct solutions				
	distinguishing correct	identifying and describing				
	reasoning from flawed and	flaws in reasoning and				
	correcting flawed reasoning	presenting correct reasoning				





MODELING & APPLICATION

In connection with content, the student solves real-world problems with a degree of difficulty appropriate to the grade/course by applying knowledge and skills articulated in the standards for the current grade/course (or for more complex problems, knowledge and skills articulated in the standards for previous grades/courses), engaging particularly in the Modeling practice, and where helpful making sense of problems and persevering to solve them, reasoning abstractly, and quantitatively, using appropriate tools strategically, looking for the making use of structure and/or looking for and expressing regularity in repeated reasoning.

	Modeling & Application					
	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic		
Content	In connection with the content k	nowledge, skills, and abilities descr	ribed in Major Content, the stud	lent devises a plan to apply		
	mathematics in solving problems arising in everyday life, society and the workplace by:					
LEAP.III.6.1	using stated assumptions and	using stated assumptions and	using stated assumptions	using stated assumptions		
LEAP.III.6.2	making assumptions and	making assumptions and	and approximations to	and approximations to		
LEAP.III.6.3	approximations to simplify a	approximations to simplify a	simplify a real-world	simplify a real-world		
	real-world situation	real-world situation	situation	situation		
	analyzing and/or creating	creating limitations and goals				
	limitations, relationships, and	within a model				
	interpreting goals within a					
	model					
	analyzing, justifying and	using models which lead to a				
	defending models which lead	conclusion				
	to a conclusion					
	mapping relationships between	mapping relationships	illustrating relationships	identifying quantities by		
	quantities by selecting	between quantities by	between quantities by using	using provided tools to		
	appropriate tools to create	selecting appropriate tools to	provided tools to create	create models		
	models	create models	models			
	analyzing relationships	analyzing relationships	analyzing relationships	analyzing relationships		
	mathematically between	mathematically between	mathematically between	mathematically to draw		
	quantities to draw conclusions	quantities to draw conclusions	quantities to draw	conclusions		
			conclusions			
	applying proportional	applying proportional	applying proportional	applying proportional		
	reasoning	reasoning	reasoning	reasoning		





	Modeling & Application					
	Level 5: Advanced	Level 4: Mastery	Level 3: Basic	Level 2: Approaching Basic		
Content	In connection with the content k	nowledge, skills, and abilities descr	ibed in Major Content, the stud	lent devises a plan to apply		
	mathematics in solving problems arising in everyday life, society and the workplace by:					
	writing/using equations to	writing/using equations to	writing/using equations to	using equations to describe		
	describe how one quantity of	describe how one quantity of	describe how one quantity	how one quantity of interest		
	interest depends on another	interest depends on another	of interest depends on	depends on another		
			another			
	using reasonable estimates of	using reasonable estimates of	using reasonable estimates	using unreasonable		
	known quantities in a chain of	known quantities in a chain of	of known quantities in a	estimates of known		
	reasoning that yields an	reasoning that yields an	chain of reasoning that	quantities in a chain of		
	estimate of an unknown	estimate of an unknown	yields an estimate of an	reasoning that yields an		
	quantity	quantity	unknown quantity	estimate of an unknown		
				quantity		
	interpreting mathematical	interpreting mathematical	interpreting mathematical			
	results in an applied context	results in an applied context	results in a simplified			
			context			
	determining whether results	determining whether results	determining whether			
	make sense	make sense	results make sense			
	improving a model if it has not	improving a model if it has not	altering a model if it has not			
	served its purpose	served its purpose	served its purpose			
	writing a complete, clear, and	writing a complete, clear, and	writing an incomplete	writing an incomplete		
	correct algebraic expression or	correct algebraic expression or	algebraic expression or	algebraic expression or		
	equation to describe a situation	equation to describe a situation	equation to describe a	equation to describe a		
			situation	situation		