3rd Grade

1st Nine Weeks

Unit EQ	How can multiplication and division help you solve real world problems?						
Benchmark CSOs	M.O.3.1.9 - demonstrate and model multiplication (repeated addition, arrays) and division (repeated subtraction, partitioning).	M.O.3.1.10 - use and explain the operations of multiplication and division including the properties (e.g., identity element of multiplication, commutative property, property of zero, associative property, inverse operations).	M.O.3.1.11 - recall basic multiplication facts and the corresponding division facts.	M.O.3.1.12 - model the distributive property in multiplication of 2- and 3-digit numbers by a 1-digit number.	M.O.3.1.13 - use models to demonstrate division of 2- and 3-digit numbers by a 1-digit number.		
Standards		Thin	gs That Come in Gro	ups			
Based Math Unit			3	,			
	Project 6 – Multi	Project 6 – Multiplication Calculator		There is not a Tech Step lesson for this CSO—refer to Ed Class			
Tech Steps			(optional)				
	Rubric						
21 st Century Online Resources	I Can Statements						
Lesson EQ's	How can you model multiplication? How can you model division?	How do you use and explain the properties of multiplication and division?	What basic multiplication and division facts can you recall? What is the relationship between multiplication facts and the corresponding division facts?	How do you model the distributive property?	How do you model division?		
Unit Vocabular					raa anavatiana		
Multiplication		ray	Commutative p		rse operations		
Division		entity element of ultiplication	Property of Zer Associative pro		ibutive property		
Facts family							

3rd Grade

1st Nine Weeks

Unit EQ	What are the connections be	etween flips, turns, and area?	
Benchmark CSOs	M.O.3.3.6 - draw an example of a flip, slide, and turn (reflection, translation, and rotation) given a model.	M.O.3.4.3 - determine the formula of the area of a rectangle and explain reasoning through modeling.	M.O.3.2.1 - analyze and extend geometric and numeric patterns.
Standards Based Math Unit	Flips, Turn	s, and Area	Other Resources
Tech Steps	There is not a To	d Class (optional)	
21 st	I Can Statements		
Century Online Resources			
Lesson EQ's	In what ways can you draw a flip, slide, and turn?	How do you explain the formula of the area of a rectangle?	What strategies can you use to extend geometric patterns? What strategies can you use to extend numeric patterns?
Unit Vocabulary Flip (reflection	•	otation)	Rectangle

Flip (reflection)
Slide (translation)

Turn (rotation) Area Rectangle Patterns

3rd Grade

2nd Nine Weeks

Unit EQ		How does measurement help	you communicate to others?	
Benchmark CSOs	M.O.3.3.7 - name the location of a point on a first-quadrant grid, represent using ordered pairs.	M.O.3.4.1 - within a project based investigation, identify a real life situation, consider a number of variables and use appropriate measurement tools, overtime, make a hypothesis as to the change overtime; with more precision than whole units; • length in centimeters and inches, • temperature in Celsius and Fahrenheit • weight/mass in pounds and kilograms, and design and implement a method to collect, organize, and analyze data; analyze results to make a conclusion; evaluate the validity of the hypothesis upon collected data; design a mode of presentation (with and without technology).	M.O.3.5.1 - collect and organize grade-appropriate real-world data from observation, surveys, and experiments, and identify and construct appropriate ways to display data.	M.O.3.5.3 - analyze real- world data represented on a graph using grade- appropriate questions.
Standards Based Math Unit	From Pac	es to Feet	From Paces to Fee	t and Other Sources
Tech Steps	There is not a Tech Step lesson for this CSO—refer to Ed Class (optional)		-	lass Favorites
21 st	I Can Statements			
Century				
Online				
Resources				

Lesson EQ's	How do you use ordered pairs to name the location on the first quadrant grid?	In what ways can data help you solve real world problems?	What strategies can you use to collect and organize data? How do you display data appropriately?	How do you analyze real world data from a graph?
Unit Vocabula	iry			
Point		Celsius	Temperatu	ıre
Quadrant		Fahrenheit	Length	
Coordinate of	grid	Pounds	Data	
Ordered pair	ſ	Kilograms	Graph	
Centimeters		Mass	Table of va	alues
Inches		Weight		

3rd Grade

2nd Nine Weeks

Unit EQ	What strategies can you use to solve real world problems involving multiplication and division?					
Benchmark CSOs	M.O.3.1.1 - read, write, order, and compare numbers to 10,000 using a variety of strategies (e.g., symbols, manipulatives, number line).	M.O.3.1.3 - identify place value of each digit utilizing standard and expanded form to 10,000.	M.O.3.1.4 - apply estimation skills (rounding, benchmarks, compatible numbers) to solve and evaluate reasonableness of an answer.	M.O.3.4.5 - identify, count and organize coins and bills to display a variety of price values from real-life examples with a total value of \$100 or less and model making change using manipulatives.		
Standards Based Math		Landmarks in the Hundreds and Other Sources				
Unit						
Tech Steps	There	otional)				
21 st	I Can Statements					
Century						
Online						
Resources						
Lesson EQ's	What strategies can you use to help you read, write, order, and compare numbers?	How can you determine the place value of a digit in a number?	How can estimation help you problem solve?	How can money be used in real life situations?		

Unit Vocabulary

Place value

Decimals

Estimation

Hundredths

Tenths

3rd Grade

3rd Nine Weeks

Unit EQ	In	btraction help you problem solv	re?	
Benchmark CSOs	M.O.3.2.2 - create an input/output model using addition, subtraction, multiplication or division.	M.O.3.2.3 - analyze a given pattern and write the rule.	M.O.3.2.5 - use symbol and letter variables to represent an unknown quantity and determine the value of the variable.	M.O.3.2.4 - write equivalent numerical expressions and justify equivalency.
Standards		Up and Down		Up and Down
Based		the Number Line		the Number Line
Math Unit				and Other Sources
Tech Steps	There	is not a Tech Step lesson for the	nis CSO—refer to Ed Class (op	tional)
21 st	I Can Statements			
Century				
Online				
Resources				
Lesson EQ's	How do you create an input/output model using addition, subtraction, multiplication, and division?	How do you write a rule from a pattern?	How do you represent an unknown quantity with a symbol or letter? How do you find the value of a variable?	How do you write equivalent numerical expressions and justify equivalency?
Unit Vocabular			5 .	
Input/Output model		Sum Rule		
Addition		Difference Variable		
Subtraction		Product Expression		1
Multiplication		Dividend		
Division		Pattern		

3rd Grade

3rd Nine Weeks

	What addition and subtraction strate	gies can you use to solve problems?	How do you determine the time
Unit EQ	What addition and subtraction strate	igles can you use to solve problems:	
			displayed on a clock?
	M.O.3.1.8 - add and subtract 2- and 3-	M.O.3.1.14 - create grade-appropriate	M.O.3.4.4 - read time to 5-minute
	digit whole numbers and money with	real-world problems involving any of	intervals using (am and pm) analog
Benchmark	and without regrouping.	the four operations using multiple	and digital clocks, compute elapsed
CSOs		strategies, explain the reasoning used,	time to the quarter-hour using a clock.
0003		and justify the procedures selected	
		when presenting solutions.	
Standards	Combining and Comparing		Other Sources
Based			
Math Unit			
Tech Steps	There is not a T	ech Step lesson for this CSO—refer to Ed	Class (optional)
21 st	I Can Statements		
Century			
Online			
Resources			
	How do you add and subtract 2- and	What real world problem can you	How do you compute elapsed time
Lesson EQ's	3- digit whole numbers and money?	create using addition, subtraction, multiplication, or division? How do you solve the problem and justify your	using a clock?
		answer?	
Unit Vocabular	v	•	·

Unit Vocabulary

Whole numbers Regroup

Addition Subtraction Justify Elapsed time

3rd Grade

3rd Nine Weeks

	What is the	How do you share something that cannot be divided into equal parts?			
Unit EQ	relationship between				
	perimeter and area?				
Benchmark CSOs	M.O.3.4.2 - estimate and find the perimeter and area of familiar geometric shapes, using manipulatives, grids, or appropriate measuring tools.	M.O.3.1.2 - read, write, order, and compare decimals to hundredths, with manipulatives.	M.O.3.1.5 - demonstrate an understanding of fractions as part of a whole/one and as part of a set/group using models and pictorial representations.	M.O.3.1.6 - create concrete models and pictorial representations to	M.O.3.1.7 - use concrete models and pictorial representations to demonstrate an understanding of equivalent fractions, proper and improper fractions, and mixed numbers.
Standards	Turtle Paths		Fair S	Shares	
Based					
Math Unit					
Tech Steps		There is not a Tech Step	lesson for this CSO—re	efer to Ed Class (optional)	
21 st	I Can Statements				
Century					
Online					
Resources					

Lesson EQ's	How do you estimate perimeter? How do you estimate area? How do you find perimeter of an	How do you read decimals? How do you write decimals? How do you order decimals? How do	How can you use models or pictures to describe fractions?	What models or pictures can you use to order and compare fractions? What models or pictures can	How can you use models or pictures to help you show equivalent fractions?
EQ's	perimeter of an object? How do you find area of an object?	decimals? How do you compare			equivalent fractions:

Unit Vocabulary Estimate Fractions Area Equivalent fractions Decimals Perimeter

3rd Grade

4th Nine Weeks

Unit EQ		How are different polygons related?				
Benchmark CSOs	M.O.3.3.1 - identify and create new polygons by transforming, combining and decomposing polygons.	M.O.3.3.2 - identify, describe, and classify the following geometric solids according to the number of faces, edges, and vertices:	M.O.3.3.3 - construct and identify a solid figure from a plane drawing.	M.O.3.3.4 - identify, describe and draw lines of symmetry in two-dimensional shapes.	M.O.3.3.5 - model, describe, and draw • lines • rays • angles including right, obtuse, and acute angles.	M.O.3.5.2 - develop and conduct grade- appropriate experiments using concrete objects (e.g. counters, number cubes, spinners) to determine the likeliness of events and list all outcomes.
Standards Based Math Unit		Ехр	loring Solids and Bo	«es		Other Sources
Tech Steps	There is not a Tech Step lesson for this CSO—refer to Ed Class (optional)					
21 st Century Online Resources	I Can Statements					
Lesson EQ's	How can you transform, combine, and decompose	How do you classify geometric solids according to their	How do you construct a solid figure from a plane	How do you know if a two dimensional figure is	In what ways can you model, describe, and draw	In what ways can you determine the chance of an

polygons to create	faces, edges, and	drawing? How do	symmetrical?	lines, rays, and	event occurring?
new polygons?	vertices?	you identify a solid		angles?	
		figure from a plane			
		drawing?			

Unit Vocabulary

Polygons Geometric solid

Faces

Edges Vertices

Cube

Rectangular prism

Cylinder

Cone

Pyramid

Two-dimensional

Symmetry

Lines

Rays

Angles

Right angle Acute angle

Obtuse angle

Event

Outcome