GRADE 6 Diff Math (GO MATH) SYLLABUS

SEMESTER ONE

Big Ideas & Essential Question	s	Lesson	State Standard
Ur	it1: Numbers		
Module1: Integers		1.1-1.3	[SS 6.1.1b] DK1
REVIEW How can you use integers to solve real		111 110	[55 5112]2111
Module2: . How can you use greatest common factors an	Factors and Multiples	solve real-work	d problems?
How can you find and use the greatest common factor of two whole nu	*	2.1	•
How can you find and use the least common multiple of two numbers?		2.2	[SS 7.1.1d]
Module3	: Rational Numbers		
v	umbers to solve real-world p		
How can you classify rational numbers?	0	3.1	[SS 7.1.1d]
How can you identify opposites and absolute values of rational number How can you compare and order rational numbers?	\$?	3.2	[SS 7.1.1b] DK1&DK2
	Number Operations	3.3	[33 7.1.10] DK1&DK2
	perations with Fractions		
How can you use operations w		d problems?	
REVIEW How do you add, subtract, multiply and divide fraction	s?	4.1-4.2	[55 6 1 20 6 120]
How do you divide mixed numbers?		4.3	[SS 6.1.2a, 6.13a] DK1 & DK2
How can you solve word problems involving more than one fraction op		4.4	
Modules: Oj How can you use operations w	perations with Decimals	d nuchlams?	
REVIEW How do you add, subtract and multiply decimals?	un aecimais io soive reai-word	5.2-5.3	
How do you divide decimals?		5.4	[SS 6.1.2b, 6.1.4a, 6.1.3a]
How can you solve problems involving multiplication and division of f	ractions and decimals?	5.5	DK1&DK2
DCA-M#1		•	
•	7]: Integer Operations		
	ling and Subtracting Integers		
How can you use addition and subtr	action of integers to solve real	_	ms?
How do you add integers with the same sign? How do you add integers with different signs?		1.1	
How do you subtract integers?		1.3	[SS 7.1.3a] DK1
How do you solve multistep problems involving addition and subtraction	on of integers?	1.4	
Gr7Module2: Mul	tiplying and Dividing Integers	5	
How can you use multiplication and d			ems?
How do you multiply integers?		2.1	
How do you divide integers?		2.2	[SS 7.1.3a] DK1
How can you use integer operations to solve real-world problems?	uivalant Evangagians	2.3	
	uivalent Expressions Equivalent Numerical Express	sions	
How can you generate equivalent numerical			d problems?
How do you use exponents to represent numbers?		9.1	[SS 6.1.1d] DK1
How do you write the prime factorization of a number?		9.2	[SS 6.1.1e] DK1
How do you use the order of operations to simplify expressions with ex		9.3	[SS 6.3.3b] DK1
	Equivalent Algebraic Expres		
How can you generate equivalent algebraic	expressions and use them to se		.*
How can you model and write algebraic expressions? How can you use the order of operations to evaluate algebraic expressions	one?	10.1 10.2	[SS 6.3.1a, 6.3.2a] DK1&DK2 [SS 6.3.3b] DK1
How can you identify and write equivalent algebraic expressions?	JHS :	10.3	
	nations and Inequalities	1010	
	uations and Relationships		
How can you use equations and	*	rld problems?	
How do you write equations and determine whether a number is a solut	ion of an equation?	11.1	[SS 6.3.1b, 6.3.2a] DK1 & DK2
How do you solve equations that contain addition or subtraction?		11.2	[SS 6.3.3d, 6.3.3e, 6.3.2a, 6.3.1b]
How do you solve equations that contain multiplication or division? How can you use inequalities to represent real-world constraints or con	ditions?	11.3	DK1 & DK2
DCA-M#2	uiuoiis :	11.4	
	Expressions and Equations		
How can you use algebraic expression		l-world proble	ms?
How do you use one-step equations with rational coefficients to solve p		6.2	
How do you write a two-step equation?		6.3	
How do you solve a two-step equation?		6.4	[SS 7.3.3d] DK1 & DK2
SS= State Standard	DK = Depth of Knowledge as	sessed	

Infuse throughout

- Check the reasonableness of solutions throughout the semester. [SS 6.1.4a] DK1 & DK2
- Select and apply the appropriate method of computation when problem solving. [SS 6.1.3b] DK1 & DK2
 Model Contextualized Problems using various Representations [SS 6.3.2a] DK1 & DK2

Use 6th Grade NeSA-M Review problems throughout curriculum as warm-ups and spiral review.

GRADE 6 Diff Math (GO MATH) SYLLABUS

SEMESTER TWO

Big Ideas and Essential Questions	Lesson	State Standard		
Unit5B (Module12): Relationships in Two Variab				
Module12: How can you use relationships in two variables to solve	real-world prol			
How do you locate and name points in the coordinate plane?	12.1 &	[SS 6.2.2a] DK1		
How can you use absolute value to find the distance between two points with the	*14.1	[SS 7.2.2c] DK1		
same x- or y-coordinates?	12.2			
How can you identify independent and dependent quantities from tables and graphs?	12.2	ECC (2.1 (2.111 DV.1 0 DV.2		
How can you use an equation to show a relationship between two variables? How can you use verbal descriptions, tables, and graphs to represent algebraic relationships?	12.3 12.4	[SS 6.3.1a, 6.3.1b] DK1 & DK2		
Unit6: Relationships in Geometry	12.4			
Module13: Area and Polygons				
How can you find the area of an irregular polygon using ar	ea formulas?			
How can you find the areas of parallelograms, rhombuses, and trapezoids?	13.1			
How can you find the area of a triangle?	13.2	[SS 6.2.5e] DK1 & DK2		
How do you use equations to solve problems about area of rectangles, parallelograms, trapezoids, and triangles?	13.3			
How can you find the area of a polygon by breaking it into simpler shapes?	13.4			
Gr7Module9: Circumference and Area	•			
How can you apply geometry concepts to solve real-world problems?				
How do you find and use the circumference of a circle?	9.1	155 7 2 5h1 DV1 0 DV2		
How do you find the area of a circle?	9.2	[SS 7.2.5b] DK1 & DK2		
How do you find the area of composite figures?	9.3			
Module15: Surface Are and Volume of Solids				
How can a model help you to solve surface are and volume				
How can you use nets to find surface area? (Identify 2-D drawings of 3-D objects)	15.1	[SS 6.2.4a] DK1 & DK2		
How can you find the volume of a rectangular prism?	15.2	[SS 6.2.5f] DK1 & DK2		
How can you write equations to solve problems involving volume of rectangular prisms?	15.3			
Unit7: Measurement and Data				
Module16: Displaying, Analyzing, and Summarizing		1.4.9		
How can you solve real-world problems by displaying, analyzing, ar	1			
How can you use measures of center to describe a data set?	16.1	[SS 6.4.1c] DK1		
How can you use a box plot and measures of spread to describe a data set?	16.3	ICC (4 1L1 DV1 & DV2		
How can you summarize and display numeric data? (supplement stem-and-leaf plots?) How can you display data in a histogram?	16.4 16.5	[SS 6.4.1b] DK1 & DK2		
UnitP: Percent & Probability	10.3			
Module8: Percents				
Module8: Percents How can you use percents to solve real-world problems?				
How can you write a ratio as a percent?	8.1			
How can you write equivalent percents, fractions and decimals?	8.2	[SS 7.1.1a] DK1&DK2]		
Gr7Module12&13: Experimental and Theoretical Pro	bability	[22 : 12 : 17]		
How can you use probability to solve real-world problems?				
How can you describe the likelihood of an event?	12.1			
How do you find the experimental probability of a simple event?	12.2	[SS 6.4.3c] DK1		
How can you find the theoretical probability of a simple event?	13.1	[SS 6.4.3b] DK1 & DK2		
DCA-M#3				
At this point in curriculum 6 th Grade Assessed State Stan	dards hav	e been covered		
Unit3: Proportionality: Ratios and Rates Module6: Representing Ratios and Rates				
How can you use ratios and rates to solve real-world p	roblems?			
How do you use ratios to compare two quantities?	6.1			
How do you use rates to compare quantities?	6.2			
How can you use ratios and rates to make comparisons and predictions?	6.3			
Module7: Applying Ratios and Rates				
How can you use ratios and rates to solve real world pr				
How can you represent real-world problems involving ratios and rates with tables and graphs?	7.1			
How can you solve problems with proportions?	7.2			
How can you use percents to solve problems?	*8.3	[SS 7.1.3.c] DK1 & DK2		
How do you convert units within a measurement system?	7.3			
How can you use ratios and proportions to convert measurements?	7.4			
SS= State Standard DK = Depth of Knowledge a	ssessed			

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