

2017-2018 Curriculum Catalog

Mathematics 300

i

Table of Contents

MATHEMATICS 300 COURSE OVERVIEW]
Unit 1: Whole Numbers	
Unit 2: Number Patterns	
Unit 3: Whole Numbers and Fractions	
Unit 4: Place Value	
Unit 5: Measurement, Shapes, and Review	
Unit 6: Multiplication, Addition, and Subtraction	
Unit 7: Operations, Likelihood, and Probability	
Unit 8: Measurement, Fractions, and Decimals	
Unit 9: Review: Multiple Concepts	∠
Unit 10: Basic Math Review	Z

Mathematics 300 Course Overview

Math 300 is a full-year elementary math course focusing on number skills and numerical literacy. In it, students will gain solid experience with number theory and operations, learning how to apply these in measurement situations. This course also integrates geometric concepts and skills throughout the units, as well as introducing students to statistical concepts.

By the end of the course, students will be expected to do the following:

- Understand place value and know how to compare and order numbers.
- Perform addition and subtraction, carrying and borrowing on whole numbers.
- Know basic multiplication facts.
- Understand representations in fraction and mixed number forms.
- Understand concepts of likelihood and basic probability.
- Understand concepts of shape, symmetry, and perimeter.
- Understand measurement concepts, including time and temperature.
- Understand representations using decimals and money.

	Unit	: 1: Whole Numbers		
	Assi	gnments		
	1.	Course Overview	16.	Quiz 3
	2.	Patterns: Digits and Number Words	17.	Adding with Carrying
	3.	Place Value	18.	Cardinal and Ordinal Numbers
0	4.	Single-Digit Addition	19.	Standard Measurement for Time
300	5.	Single-Digit Subtraction	20.	Calendar Time
Mathematics	6.	Addition Problems	21.	Quiz 4
eme	7.	Subtraction Problems	22.	Unit Concept Review 1
athe	8.	Quiz 1	23.	Unit Concept Review 2
Ž	9.	Numbers on a Number Line	24.	Practice: Addition and Subtraction
	10.	Pattern for Expanded Notation	25.	Quiz 5
	11.	Adding Multi-digit Numbers	26.	Special Project*
	12.	Quiz 2	27.	Review Game
	13.	Subtracting 3-Digit Numbers	28.	Test
	14.	Measurement	29.	Alternate Test*
	15.	Operation Symbols	30.	Reference

	Unit	2: Number Patterns							
	Assig	Assignments							
	1.	Family of Facts	14.	Money					
	2.	Adding Ones, Tens, and Hundreds	15.	Review: Borrowing					
0	3.	Subtracting Ones, Tens, and Hundreds	16.	Addition: Checking Answers					
300	4.	Quiz 1	17.	Subtraction: Checking Answers					
ıtics	5.	Place Value and Number Words	18.	Quiz 4					
Mathematics	6.	Addition with Carrying	19.	Review: Number Order and Place Value					
athe	7.	Skip Counting and Number Words	20.	Review: Addition and Subtraction Facts					
Ž	8.	Quiz 2	21.	Quiz 5					
	9.	Skip Counting and Addition with Carrying	22.	Special Project*					
	10.	Fractions	23.	Review Game					
	11.	Subtracting with Borrowing	24.	Test					
	12.	Quiz 3	25.	Alternate Test*					
	13.	Shapes	26.	Reference					

	Unit 3: Whole Numbers and Fractions							
	Assi	gnments						
	1.	Fact Families, Mental Math, and Addition	15.	Fractions - Continued				
	2.	Column Addition	16.	Addition Practice				
	3.	Addition: With and Without Carrying	17.	Time: AM and PM				
300	4.	Quiz 1	18.	Quiz 4				
	5.	Measurements: Weight and Volume	19.	Review: Addition, Subtraction, and Money				
Mathematics	6.	Fact Family, Place Value, and Number Order	20.	Review: Story Problems, Lines, Shapes, and				
hen	7.	Checking Addition Problems		Measurement				
∕lat	8.	More Checking Addition Problems	21.	Quiz 5				
	9.	Quiz 2	22.	Special Project*				
	10.	Subtraction with Borrowing	23.	Review Game				
	11.	Number Sentences and Symbols	24.	Test				
	12.	Subtraction with Borrowing and Checking	25.	Alternate Test*				
	13.	Quiz 3	26.	Reference				
	14.	Fractions						

	Unit	4: Place Value						
	Assig	Assignments						
	1.	Numbers to Thousands Place	13.	Roman Numerals				
	2.	Addition and Skip Counting	14.	Review: Subtraction with Borrowing				
300	3.	Quiz 1	15.	Quiz 4				
	4.	Rounding and Estimation	16.	Review: Fractions				
Mathematics	5.	Subtraction with Borrowing	17.	Review: Word Problems and Money				
hen	6.	Measurement	18.	Quiz 5				
Mat	7.	Quiz 2	19.	Special Project*				
_	8.	Number Words and Place Value	20.	Review Game				
	9.	Number Patterns	21.	Test				
	10.	Addition and Subtraction: Horizontal Form	22.	Alternate Test*				
	11.	Quiz 3	23.	Reference				
	12.	Adding and Subtracting Fractions						

	Unit	5: Measurement, Shapes, and Review						
	Assig	Assignments						
	1.	Operation Symbols and Number Sense	14.	Odd And Even Numbers				
	2.	Multi-Digit Addition And Subtraction	15.	Review: Checking Addition				
0	3.	Cardinal and Ordinal Numbers	16.	Review: Checking Subtraction				
300	4.	Quiz 1	17.	Review: Roman Numerals and Fractions				
Mathematics	5.	Number Patterns Using Place Value	18.	Quiz 4				
ema	6.	Measuring Temperature	19.	Review: Multiple Concepts				
athe	7.	Quiz 2	20.	Review: Story Problems				
Ž	8.	Operation Symbols	21.	Quiz 5				
	9.	Shapes and Symmetry	22.	Special Project*				
	10.	Rounding and Estimating	23.	Review Game				
	11.	Finding Perimeter	24.	Test				
	12.	Quiz 3	25.	Alternate Test*				
	13.	Multi-Digit Addition and Subtraction	26.	Reference				

	Unit 6: Multiplication, Addition, and Subtraction						
	Assi	gnments					
	1.	Multi-Digit Addition	13.	Lines, Angles, and Temperature			
	2.	Skip Counting and Multiplication	14.	Review: Addition and Subtraction			
300	3.	Review: Telling Time	15.	Quiz 4			
	4.	Quiz 1	16.	Story Problems			
Mathematics	5.	Review: Subtraction	17.	Multiple Concept Review			
hen	6.	Perimeter and Area	18.	Review: Calendar			
Mat	7.	Review: Fractions	19.	Quiz 5			
	8.	Quiz 2	20.	Special Project*			
	9.	Addition and Equivalent Fractions	21.	Review Game			
	10.	Money Computation and Roman Numerals	22.	Test			
	11.	Quiz 3	23.	Alternate Test*			
	12.	Multiplication	24.	Reference			

	Assig	Assignments						
	1.	Review: Place Value	13.	Quiz 3				
	2.	Review: Subtraction with Borrowing	14.	Review: Money				
300	3.	Multiplication Facts (1)	15.	Multiplication Facts (2)				
	4.	Quiz 1	16.	Quiz 4				
Mathematics	5.	Measurement	17.	Multiple Concept Review				
hen	6.	Practicing Subtraction with Borrowing	18.	Quiz 5				
Mat	7.	Mixed Numbers	19.	Special Project*				
	8.	Quiz 2	20.	Review Game				
	9.	Review: Expanded Notation and Roman Numerals	21.	Test				
	10.	Probability and Likelihood	22.	Alternate Test*				
	11.	Math Facts	23.	Reference				
	12.	Symmetry						

	Unit	Unit 8: Measurement, Fractions, and Decimals						
	Assignments							
	1.	Shapes, Measurement, and Addition	12.	Multiple Concept Practice				
0	2.	Time and Measurement	13.	Review: Addition With Checking				
300	3.	Quiz 1	14.	Quiz 4				
Mathematics	4.	Fractions, Odd and Even Number Patterns	15.	Word Problems				
eme	5.	Decimals	16.	Using Graphs				
athe	6.	Money Problems	17.	Quiz 5				
Ž	7.	Quiz 2	18.	Special Project*				
	8.	Fractions, Place Value, and Measurement	19.	Review Game				
	9.	Directions	20.	Test				
	10.	Quiz 3	21.	Alternate Test*				
	11.	Multiplication Facts	22.	Reference				

	Unit 9: Review: Multiple Concepts						
	Assig	gnments					
	1.	How Numbers Work	13.	Quiz 3			
	2.	Math Facts	14.	Symmetry and Shapes			
300	3.	Add/Subtract with Checking	15.	Roman Numerals			
	4.	Multiplication	16.	Quiz 4			
Mathematics	5.	Quiz 1	17.	Likelihood and Graphing			
hen	6.	Equivalent Fractions	18.	Problem Solving			
Mat	7.	Reading and Writing Fractions	19.	Quiz 5			
	8.	Fraction Computation	20.	Special Project*			
	9.	Quiz 2	21.	Review Game			
	10.	Measure: Length, Perimeter, and Area	22.	Test			
	11.	Measure: Money, Time, and Temperature	23.	Alternate Test*			
	12.	Measure: Weight and Volume	24.	Reference			

	Unit	t 10: Basic Math Review						
	Assi	Assignments						
	1.	Review: Rounding and Estimation	13.	Review: Shapes and Symmetry				
	2.	Review: Adding Fractions	14.	Review: Roman Numerals				
0	3.	Review: Subtracting Fractions	15.	Review: Measurement				
300	4.	Review: Multiplication Facts	16.	Quiz 4				
ıtics	5.	Quiz 1	17.	Review: Number Symbols and Grouping				
Mathematics	6.	Review: Mental Math, Graphs, Likelihood	18.	Review: Perimeter and Area				
athe	7.	Review: Addition and Subtraction Computation	19.	Review: Problem Solving				
Ž	8.	Quiz 2	20.	Quiz 5				
	9.	Review: Fractions and Decimals	21.	Special Project*				
	10.	Review: Add and Subtract Mixed Numbers and	22.	Review Game				
		Fractions	23.	Test				
	11.	Review: Finding Missing Numbers	24.	Alternate Test*				
	12.	Quiz 3	25.	Reference				

(*) Indicates alternative assignment