## **Odysseyware**®

# **CURRICULUM** OVERVIEW

### Mathematics 300



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#### 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.

- Unit 1: Calculate problems using addition and subtraction
- Unit 2: Identify number patterns and build on addition and subtraction skills
- Unit 3: Use units of measurement and build on addition and subtraction skills
- Unit 4: Demonstrate understanding of place value to thousands place
- Unit 5: Review place value, measurement, and operations
- Unit 6: Use the operations of multiplication, addition, and subtraction
- Unit 7: Determine probability, and review operations and measurement
- Unit 8: Calculate fractions and decimals, and review operations and place value
- Unit 9: Review number patterns, operations, fractions, and shapes
- Unit 10: Use addition, subtraction, and multiplication in various ways and review multiple topics

	Unit	1: Whole Numbers						
	Assignments							
	1.	Course Overview	16.	Quiz 3: Number Order				
	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: Number Operations				
eme	7.	Subtraction Problems	22.	Unit Concept Review (1)				
athe	8.	Quiz 1: Addition and Subtraction	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: Concept Review				
	11.	Adding Multi-Digit Numbers	26.	Special Project*				
	12.	Quiz 2: Addition and Subtraction	27.	Test				
	13.	Subtracting 3-Digit Numbers	28.	Alternate Test*				
	14.	Measurement	29.	Glossary and Credits				
	15.	Operation Symbols						

	Unit	2: Number Patterns		
	Assig	nments		
	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: Fact Families	17.	Subtraction: Checking Answers
Mathematics	5.	Place Value and Number Words	18.	Quiz 4: Shapes and Money
eme	6.	Addition with Carrying	19.	Review: Number Order and Place Value
athe	7.	Skip Counting and Number Words	20.	Review: Addition and Subtraction Facts
Ĕ	8.	Quiz 2: Place Value	21.	Quiz 5: Review
	9.	Skip Counting	22.	Special Project*
	10.	Fractions	23.	Test
	11.	Subtracting with Borrowing	24.	Alternate Test*
	12.	Quiz 3: Fractions	25.	Glossary and Credits
	13.	Shapes		

	Unit	3: Whole Numbers and Fractions							
	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: Fact Families	17.	Subtraction: Checking Answers					
tics	5.	Place Value and Number Words	18.	Quiz 4: Shapes and Money					
sme	6.	Addition with Carrying	19.	Review: Number Order and Place Value					
Mathematics	7.	Skip Counting and Number Words	20.	Review: Addition and Subtraction Facts					
ž	8.	Quiz 2: Place Value	21.	Quiz 5: Review					
	9.	Skip Counting	22.	Special Project*					
	10.	Fractions	23.	Test					
	11.	Subtracting with Borrowing	24.	Alternate Test*					
	12.	Quiz 3: Fractions	25.	Glossary and Credits					
	13.	Shapes							

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

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

	Unit	Jnit 6: Multiplication, Addition, and Subtraction				
	Assig	nments				
	1.	Multi-Digit Addition	12.	Multiplication		
	2.	Skip Counting and Multiplication	13.	Lines, Angles, and Temperature		
0	3.	Review: Telling Time	14.	Review: Addition and Subtraction		
300	4.	Quiz 1: Addition, Skip Counting, and Time	15.	Quiz 4: Multiplication, Lines, and Temperature;		
Mathematics	5.	Review: Subtraction		Review		
eme	6.	Perimeter and Area	16.	Story Problems		
athe	7.	Review: Fractions	17.	Multiple Concept Review		
Σ	8.	Quiz 2: Subtraction, Perimeter and Area, and	18.	Review: Calendar		
		Fractions	19.	Quiz 5: Story Problems and Review		
	9.	Addition and Equivalent Fractions	20.	Special Project*		
	10.	Money Computation and Roman Numerals	21.	Test		
	11.	Quiz 3: Addition, Fractions, Money, and Roman	22.	Alternate Test*		
		Numerals	23.	Glossary and Credits		

	Unit 7: Operations, Likelihood, and Probability Assignments						
	1.	Review: Place Value	12.	Symmetry			
0	2.	Review: Subtraction with Borrowing	13.	Quiz 3: Probability, Math Facts, and Symmetry			
300	3.	Multiplication Facts	14.	Review: Money			
tics	4.	Quiz 1: Place Value and Operations	15.	Multiplication Facts			
Mathematics	5.	Measurement	16.	Multiple Concept Review			
athe	6.	Practicing Subtraction with Borrowing	17.	Quiz 4: Money and Multiplication Facts; Review			
Ž	7.	Mixed Numbers	18.	Special Project*			
	8.	Quiz 2: Measurement and Mixed Numbers	19.	Test			
	9.	Review: Expanded Notation and Roman Numerals	20.	Alternate Test*			
	10.	Probability and Likelihood	21.	Glossary and Credits			
	11.	Math Facts					

	Unit	Unit 8: Measurement, Fractions, and Decimals					
	Assignments						
	1.	Shapes, Measurement, and Addition	11.	Multiplication Facts			
0	2.	Time and Measurement	12.	Multiple Concept Practice			
300	3.	Quiz 1: Shapes, Time, and Measurements	13.	Review: Addition With Checking			
Mathematics	4.	Fractions	14.	Quiz 4: Multiplication Facts; Review			
eme	5.	Decimals	15.	Word Problems			
athe	6.	Money Problems	16.	Using Graphs			
ž	7.	Quiz 2: Fractions, Decimals, and Money	17.	Quiz 5: Word Problems and Graphs			
	8.	Expanded Notation and Mixed Numbers	18.	Special Project*			
	9.	Directions and Picture Graphs	19.	Test			
	10.	Quiz 3: Expanded Notation, Mixed Numbers, and	20.	Alternate Test*			
		Directions	21.	Glossary and Credits			

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

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

(\*) Indicates alternative assignment