



CURRICULUM CATALOG

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

Unit 2: Number Patterns	
Assignments	
1. Family of Facts	14. Money
2. Adding Ones, Tens, and Hundreds	15. Review: Borrowing
3. Subtracting Ones, Tens, and Hundreds	16. Addition: Checking Answers
4. Quiz 1: Fact Families	17. Subtraction: Checking Answers
5. Place Value and Number Words	18. Quiz 4: Shapes and Money
6. Addition with Carrying	19. Review: Number Order and Place Value
7. Skip Counting and Number Words	20. Review: Addition and Subtraction Facts
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	
Assignments	
1. Family of Facts	14. Money
2. Adding Ones, Tens, and Hundreds	15. Review: Borrowing
3. Subtracting Ones, Tens, and Hundreds	16. Addition: Checking Answers
4. Quiz 1: Fact Families	17. Subtraction: Checking Answers
5. Place Value and Number Words	18. Quiz 4: Shapes and Money
6. Addition with Carrying	19. Review: Number Order and Place Value
7. Skip Counting and Number Words	20. Review: Addition and Subtraction Facts
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 4: Place Value	
Assignments	
1. Numbers to Thousands Place	13. Roman Numerals
2. Addition	14. Review: Subtraction with Borrowing
3. Quiz 1: Place Value and Addition	15. Quiz 4: Adding and Subtracting Fractions and Roman Numerals
4. Rounding and Estimation	16. Review: Fractions
5. Subtraction with Borrowing	17. Review: Word Problems and Money
6. Measurement	18. Quiz 5: Review
7. Quiz 2: Rounding	19. Special Project*
8. Number Words and Place Value	20. Test
9. Number Patterns	21. Alternate Test*
10. Addition and Subtraction: Horizontal Form	22. Glossary and Credits
11. Quiz 3: Place Value	
12. Adding and Subtracting Fractions	

Unit 5: Measurement, Shapes, and Review		
Assignments		
Mathematics 300	1. Operation Symbols and Number Sense	14. Odd and Even Numbers
	2. Multi-Digit Addition and Subtraction (1)	15. Review: Checking Addition
	3. Cardinal and Ordinal Numbers	16. Review: Checking Subtraction
	4. Quiz 1: Numbers	17. Review: Roman Numerals and Fractions
	5. Number Patterns Using Place Value	18. Quiz 4: Addition and Subtraction
	6. Measuring Temperature	19. Review: Multiple Concepts
	7. Quiz 2: Place Value	20. Review: Story Problems
	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 6: Multiplication, Addition, and Subtraction		
Assignments		
Mathematics 300	1. Multi-Digit Addition	12. Multiplication
	2. Skip Counting and Multiplication	13. Lines, Angles, and Temperature
	3. Review: Telling Time	14. Review: Addition and Subtraction
	4. Quiz 1: Addition, Skip Counting, and Time	15. Quiz 4: Multiplication, Lines, and Temperature; Review
	5. Review: Subtraction	16. Story Problems
	6. Perimeter and Area	17. Multiple Concept Review
	7. Review: Fractions	18. Review: Calendar
	8. Quiz 2: Subtraction, Perimeter and Area, and 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 Numerals	22. Alternate Test*
	23. Glossary and Credits	

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

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

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

(*) Indicates alternative assignment