Course Catalog
Mathematics 400

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COURSE OVERVIEW

Math 400 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, including decimals and fractions. This course also integrates geometric concepts and skills throughout the units, teaches measurement skills, and introduces students to statistical concepts.

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

- Perform all four operations on whole numbers.
- Compare and order numbers, using place value and rounding.
- Add and subtract fractions and decimals.
- Understand measurement concepts, including the metric system.
- Calculate perimeters and areas of regular plane shapes.
- Represent data on varied statistical charts.

UNIT 1: NUMBER SENSE AND PLACE VALUE

Assignment Titles

1.	Course Overview	16.	Quiz 3
2.	Place Value to 1,000s	17.	Reading and Writing Fractions
3.	Single-Digit Addition	18.	Practice Multiplication
4.	Single-Digit Subtraction	19.	Counting Money
5.	Multi-Digit Addition	20.	Operations
6.	Multi-Digit Subtraction	21.	Quiz 4
7.	Review Place Value to 1,000s	22.	Review: Numbers
8.	Quiz 1	23.	Story Problems
9.	Multiplication Facts	24.	Quiz 5
10.	Family of Facts	25.	Special Project
11.	Telling Time	26.	Review Game
12.	Quiz 2	27.	Test
13.	Number Words	28.	Alternate Test*
14.	Patterns	29.	Reference
15.	Cardinal and Ordinal Numbers	30.	

UNIT 2: ROUNDING AND ESTIMATION

Assignment Titles

1.	Operations	15.	Equivalent Fractions
2.	Multiplication Facts: 6-10 and Review	16.	Rounding Numbers to 100s
3.	Using Standard Measures	17.	Estimating Answers to 100s
4.	Quiz 1	18.	Review: Computation
5.	Place Value to 10,000s	19.	Quiz 4
6.	Relation Symbols	20.	Review: Bar Graphs and Fractions
7.	Missing Number Equations	21.	Review: Fractions
8.	Review: Even and Odd Numbers	22.	Quiz 5
9.	Quiz 2	23.	Special Project*
10.	Adding and Subtracting Fractions	24.	Review Game
11.	Rounding Numbers to 10s	25.	Test
12.	Estimating Answers to 10s	26.	Alternate Test*
13.	Review: Math Symbols	27.	Reference
14.	Quiz 3		

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UNIT 3: WHOLE NUMBERS AND FRACTIONS

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Assignment Titles

1.	Place Value	15.	Quiz 3
2.	Rounding Numbers to 10s, 100s, and 1,000s	16.	Equivalent Fractions
3.	Multiply with Carrying to 10s	17.	Learn Numbers to 100,000s
4.	Multiplication Practice	18.	Equations
5.	Quiz 1	19.	Quiz 4
6.	Multi-Digit Addition and Subtraction	20.	Reading and Solving Story Problems
7.	Rounding and Estimating	21.	Line Graphs
8.	Fractions Equal to Whole Numbers	22.	Quiz 5
9.	Quiz 2	23.	Special Project*
10.	Estimate Answers to 1,000s	24.	Review Game
11.	Relation Symbols	25.	Test
12.	Fractions	26.	Alternate Test*
13.	Add and Subtract to 10,000s	27.	Reference
14.	Check Your Answers		

UNIT 4: LINES AND SHAPES

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Assignment Titles

1.	Plane and Solid Shapes	12.	Missing Number Problems
2.	Quiz 1	13.	Review: Operation and Relation Symbols
3.	Practice Addition and Subtraction	14.	Quiz 4
4.	Place Value and Rounding	15.	Review: Expanded Notation and Estimation
5.	Multiply with Carrying to 100s	16.	Review: Fractions and Place Value
6.	Quiz 2	17.	Quiz 5
7.	Lines, Segments, End Points, Rays, Angles	18.	Special Project*
8.	Lines, Directions, and Maps	19.	Review Game
9.	Quiz 3	20.	Test
10.	Review: Plane and Solid Shapes	21.	Alternate Test*
11.	Fractions	22.	Reference

UNIT 5: DIVISION AND MEASUREMENT

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Assignment Titles

1.	Introduction to Division	14.	Quiz 3
2.	Multiplication	15.	Missing Number Problems
3.	Addition and Subtraction	16.	Division Practice
4.	Review: Time and Number Sense	17.	Roman Numerals
5.	Quiz 1	18.	Review: Regrouping
6.	Linear Measurement	19.	Quiz 4
7.	Capacity (Dry and Liquid Measurement)	20.	Patterns
8.	Division Facts	21.	Quiz 5
9.	Review: Multiplication	22.	Special Project*
10.	Quiz 2	23.	Review Game
11.	Reading a Calendar	24.	Test
12.	Perimeter and Area	25.	Alternate Test*
13.	Finding Perimeter and Area	26.	Reference

UNIT 6: MULTIPLICATION AND FRACTIONS

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Assignment Titles
1. Prime and Composite Numbers
2. Multiples
3. Division with Remainders
4. Quiz 1
5. Equations and Grouping
6. Proper and Improper Fractions
7. Quiz 2
8. Multiplication Facts For 11 and 12
9. Fractions and Mixed Numbers
10. Review: Division and Roman Numerals
11. Quiz 3
12. Measurements
13. Equivalent Fractions
14. Review: Rounding and Shapes
15. Quiz 4
16. Factors and Multiples
17. Problem Solving with Equations
18. Quiz 5
19. Special Project*
20. Review Game
21. Test
22. Alternate Test*
23. Reference

UNIT 7: FRACTIONS AND PATTERNS

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Assignment Titles
1. Multiplication and Division
2. Factors, Multiples, and Variables
3. Fractions
4. Quiz 1
5. Multiplication and Fractions
6. Average and Number Rules
7. Review: Measurement and Place Value
8. Quiz 2
9. Fractions
10. Missing Number Problems
11. Quiz 3
12. Rounding Numbers and Place Value
13. Review: Shapes, Perimeter, and Area
14. Fractions and Patterns
15. Practice: Operations and Money
16. Quiz 4
17. Review: Cardinal and Ordinal Numbers
18. Quiz 5
19. Special Project*
20. Review Game
21. Test
22. Alternate Test*
23. Reference

UNIT 8: DIVISION AND FRACTIONS

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Assignment Titles
1. Factoring and Place Value
2. Review: Two-Digit Multiplication
3. Fractions
4. Quiz 1
5. Division
6. Fractions
7. Missing Number Problems
8. Quiz 2
9. Multiplication
10. Division
11. Quiz 3
12. The Metric System
13. Fractions
14. Review: Time
15. Quiz 4
16. Review: Operations and Rounding
17. Review: Roman Numerals, Measurement, and Symbols
18. Quiz 5
19. Special Project*
20. Review Game
21. Test
22. Alternate Test*
23. Reference

UNIT 9: DECIMALS AND FRACTIONS

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Assignment Titles
1. Decimals
2. Money
3. Multiplication of Whole Numbers
4. Quiz 1
5. Ordered Pairs
6. Division and Averages
7. Quiz 2
8. Add and Subtract Decimals
9. Fractions with Different Denominators
10. Equivalent Fractions and Decimals
11. Quiz 3
12. Multiply and Divide
13. Mixed Numbers
14. Sensible Answers
15. Quiz 4
16. Review: Fractions
17. Review
18. Quiz 5
19. Special Project*
20. Review Game
21. Test
22. Alternate Test*
23. Reference

	UNIT 10: GRAPHING AND REVIEW		
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	1. Data Collection and Random Sampling	11.	Quiz 3
	2. Project: Collecting Data	12.	Sizes, Shapes, and Measurements
	3. Project: Predicting Data	13.	Word Problems and Equations
	4. Graphs	14.	Quiz 4
	5. Quiz 1	15.	Special Project*
	6. Whole Numbers	16.	Review Game
	7. Decimal Numbers	17.	Test
	8. Quiz 2	18.	Alternate Test*
	9. Problem Solving with Fractions	19.	Reference
	10. Fractions		

(*) Indicates alternate assignment