



Switched-On

SCHOOLHOUSE® 2012 EDITION

Curriculum Catalog

Mathematics 300

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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	
Assignment Titles	
1. Course Overview	16. Quiz 3
2. Patterns: Digits and Number Words	17. Adding with Carrying
3. Place Value	18. Cardinal and Ordinal Numbers
4. Single-Digit Addition	19. Standard Measurement for Time
5. Single-Digit Subtraction	20. Calendar Time
6. Addition Problems	21. Quiz 4
7. Subtraction Problems	22. Unit Concept Review 1
8. Quiz 1	23. Unit Concept Review 2
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	
Assignment Titles	
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	17. Subtraction: Checking Answers
5. Place Value and Number Words	18. Quiz 4
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	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
Assignment Titles

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|---|--|
| 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 |
| 4. Quiz 1 | 18. Quiz 4 |
| 5. Measurements: Weight and Volume | 19. Review: Addition, Subtraction, and Money |
| 6. Fact Family, Place Value, and Number Order | 20. Review: Story Problems, Lines, Shapes, and Measurement |
| 7. Checking Addition Problems | 21. Quiz 5 |
| 8. More Checking Addition Problems | 22. Special Project |
| 9. Quiz 2 | 23. Review Game |
| 10. Subtraction with Borrowing | 24. Test |
| 11. Number Sentences and Symbols | 25. Alternate Test |
| 12. Subtraction with Borrowing and Checking | 26. Reference |
| 13. Quiz 3 | |
| 14. Fractions | |

UNIT 4: PLACE VALUE
Assignment Titles

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|---|--|
| 1. Numbers to Thousands Place | 13. Roman Numerals |
| 2. Addition and Skip Counting | 14. Review: Subtraction with Borrowing |
| 3. Quiz 1 | 15. Quiz 4 |
| 4. Rounding and Estimation | 16. Review: Fractions |
| 5. Subtraction with Borrowing | 17. Review: Word Problems and Money |
| 6. Measurement | 18. Quiz 5 |
| 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
Assignment Titles

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|--|--|
| 1. Operation Symbols and Number Sense | 14. Odd And Even Numbers |
| 2. Multi-Digit Addition And Subtraction | 15. Review: Checking Addition |
| 3. Cardinal and Ordinal Numbers | 16. Review: Checking Subtraction |
| 4. Quiz 1 | 17. Review: Roman Numerals and Fractions |
| 5. Number Patterns Using Place Value | 18. Quiz 4 |
| 6. Measuring Temperature | 19. Review: Multiple Concepts |
| 7. Quiz 2 | 20. Review: Story Problems |
| 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
Assignment Titles

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|--|--------------------------------------|
| 1. Multi-Digit Addition | 13. Lines, Angles, and Temperature |
| 2. Skip Counting and Multiplication | 14. Review: Addition and Subtraction |
| 3. Review: Telling Time | 15. Quiz 4 |
| 4. Quiz 1 | 16. Story Problems |
| 5. Review: Subtraction | 17. Multiple Concept Review |
| 6. Perimeter and Area | 18. Review: Calendar |
| 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 |

UNIT 7: OPERATIONS, LIKELIHOOD, AND PROBABILITY
Assignment Titles

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|---|------------------------------|
| 1. Review: Place Value | 13. Quiz 3 |
| 2. Review: Subtraction with Borrowing | 14. Review: Money |
| 3. Multiplication Facts (1) | 15. Multiplication Facts (2) |
| 4. Quiz 1 | 16. Quiz 4 |
| 5. Measurement | 17. Multiple Concept Review |
| 6. Practicing Subtraction with Borrowing | 18. Quiz 5 |
| 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 8: MEASUREMENT, FRACTIONS, AND DECIMALS
Assignment Titles

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|--|------------------------------------|
| 1. Shapes, Measurement, and Addition | 12. Multiple Concept Practice |
| 2. Time and Measurement | 13. Review: Addition With Checking |
| 3. Quiz 1 | 14. Quiz 4 |
| 4. Fractions, Odd and Even Number Patterns | 15. Word Problems |
| 5. Decimals | 16. Using Graphs |
| 6. Money Problems | 17. Quiz 5 |
| 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
Assignment Titles

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|---|-----------------------------|
| 1. How Numbers Work | 13. Quiz 3 |
| 2. Math Facts | 14. Symmetry and Shapes |
| 3. Add/Subtract with Checking | 15. Roman Numerals |
| 4. Multiplication | 16. Quiz 4 |
| 5. Quiz 1 | 17. Likelihood and Graphing |
| 6. Equivalent Fractions | 18. Problem Solving |
| 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 | Reference |

UNIT 10: BASIC MATH REVIEW
Assignment Titles

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