

Curriculum Catalog

Mathematics 600

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Switched-On Schoolhouse comes complete with a full, multimedia-rich curriculum for grades 3-12 in five core subjects and electives.

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UNIT 1: NUMBERS AND PLACE VALUE		
A	Assignment Titles	
Reading and Comparing Numbers	Prime Factorization	
Place Value Through the Billion's Place	More Prime Factorization	
3. Roman Numerals	11. Number Relationships	
Ways of Looking at Numbers	12. Quiz 2	
5. Quiz 1	13. Special Project	
6. Expanded Notation	14. Review Game	
7. Exponential Notation	15. TEST	
8. Exponents and Expanded Notation	16. ALTERNATE TEST	

UNIT 2: OPERATIONS WITH WHOLE NUMBERS		
Assignment Titles		
Basic Mathematical Operations	Factors, Multiples, and Whole Number	
2. Properties of Addition	Multiplication	
More Practice with Properties of Addition	12. Division of Whole Numbers	
Operations and Their Opposites	13. Division of Whole Numbers	
5. Subtraction of Whole Numbers	14. More Division of Whole Numbers	
Introduction to Equations	15. Equations Using Multiplication and Division	
7. Estimating	16. Quiz 2	
8. Quiz 1	17. Special Project	
Commutative and Associative Properties of	18. Review Game	
Multiplication	19. TEST	
10. Multiplication of Whole Numbers	20. ALTERNATE TEST	

UNIT 3: ADVANCED PRACTICE WITH WHOLE NUMBERS		
Assign	nment Titles	
Sums and Differences	11. Properties of Addition and Multiplication	
2. More Sums and Differences	12. Quiz 2	
Still More Sums and Differences	Patterns and Numbers Sequences	
Estimating Products	14. Rounding and Missing Number Patterns	
5. Estimating Quotients	15. Problem Solving	
More Estimating Quotients	16. Quiz 3	
7. Quiz 1	17. Special Project	
Calculator Practice: Addition and Subtraction	18. Review Game	
9. More Calculator Practice: Addition and Subtraction	19. TEST	
10. Divisibility Rules	20. ALTERNATE TEST	

UNIT 4: DECIMAL NUMBERS				
Assignment Titles				
Positioning the Decimal Point	14. Review: Rules of Multiplication and Division			
Comparing Decimal Numbers	15. More Review: Multiplication and Division			
3. Rounding Whole Numbers and Decimal Numbers	16. Multiplication of Decimals			
4. More Rounding Whole Numbers and Decimal	17. Multiplication of Whole and Decimal Numbers			
Numbers	18. Multiplying Decimals			
5. Rounding Decimal Numbers	19. Quiz 3			
6. Decimal Numbers	20. Division Using 10, 100, 1,000			
7. Equivalent Decimals	21. Review: Division			
8. Quiz 1	22. Division of Decimal Numbers			
Adding and Subtracting Decimals	23. Quiz 4			
10. Adding Decimal Numbers	24. Special Project			
11. Decimal Numbers and Operations	25. Review Game			
12. Review: Adding, Subtracting, and Multiplying	26. TEST			
Decimal Numbers	27. ALTERNATE TEST			
13. Quiz 2				

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UNIT 5: BEGINNING FRACTIONS

Assignment Titles

- 1. Introduction to Fractions and Decimals
- 2. Writing Fractions as Decimals 3. Relating Fractions to Decimals
- 4. Fractions to Decimals
- 5. Quiz 1
- 6. Equivalent Fractions
- 7. Proper, Improper, and Mixed Fractions
- 8. Convert Improper Fractions to Mixed Numbers
- 10. Reducing Improper Fractions
- 11. Converting Mixed Numbers to Improper Fractions
- 12. Comparing Fractions
- 13. Quiz 2
- 14. Least Common Multiple
- 15. Review: Prime Factoring
- 16. Greatest Common Factors
- 17. Greatest Common Factors and Lowest Common

Multiples

- 18. Quiz 3
- 19. Addition and Subtraction of Fractions with Common
- **Denominators**
- 20. Addition and Subtraction of Mixed Numbers with
- Common Denominators
- 21. Addition and Subtraction of Fractions and Mixed
- Numbers with Unlike Denominators
- 22. Subtraction of Unlike Fractions and Mixed Numbers
- with Borrowing
- 23. Adding and Subtracting Fractions
- 24. Adding Fractions
- 25. Quiz
- 26. Special Project
- 27. Review Game
- 28. TEST
- 29. ALTERNATE TEST

UNIT 6: MULTIPLYING AND DIVIDING FRACTIONS

Assignment Title

- 1. Multiplication of Fractions
- 2. Multiplication of Fractions with Reducing
- 3. Multiplication of Fractions Times Whole Numbers
- 4. Multiplying Mixed Numbers
- 5. Multiplying Whole Numbers Times Fractions
- 6. Multiplying and Reducing Fractions
- 7. Quiz 1
- 8. Reciprocals
- 9. Division of Fractions by a Fraction
- 10. Division of Fractions with Whole Numbers
- 11. Division of Fractions with Mixed Numbers

- 12. Quiz 2
 - 13. Dividing Whole Numbers and Fractions
 - 14. Dividing Fractions
 - 15. More Dividing Fractions
 - 16. Multiplying and Dividing with Fractions
 - 17. Multiplying and Dividing with Decimals
 - 18. Quiz 3
 - 19. Special Project
 - 20. Review Game
 - **21. TEST**
- 22. ALTERNATE TEST

UNIT 7: DECIMALS AND FRACTIONS

Assignment Title

- 1. Converting Fractions to Decimals and Percents 11. Quiz 2
- 2. Finding Percentages
- 3. Equations Using Percent
- 4. More Equations Using Percent
- 5. Changing Fractions to Decimals to Percent
- 6. Quiz 1
- 7. Converting Fractions to Decimals
- 8. Prime and Composition Numbers
- 9. Prime Numbers and Prime Factors
- 10. Prime and Composite Practice

- - 12. Greatest Common Factors
 - 13. Greatest Common Factors and Least Common Multiple
 - 14. Practice Adding Fractions
 - 15. Practice Subtracting Fractions
 - 16. Quiz 3
 - 17. Special Project
 - 18. Review Game

 - 20. ALTERNATE TEST

UNIT 8: GEOMETRY AND MEASUREMENT

Assignment Title

- 1. Two and Three Dimensional Shapes
- 2. Three Dimensional Shapes
- 3. Shapes
- 4. Circles
- 5. Quiz 1
- 6. Lines, Angles, and Congruency
- 7. Lines, Rays, and Angles
- 8. Angles 9. Project: Angles
- 10. Angles and Shapes
- 11. Quiz 2
- 12. Perimeter, Volume, and Area
- 13. More Perimeter, Volume, and Area
- 14. Equation Basics, Area and Perimeter
- 15. Review Formulas: Distance, Area, Perimeter, and
- Amount

- 16. Review Formulas: Area, Perimeter, Circumference,
- and Volume 17. More Review of Formulas
- 18. Quiz 3
- 19. The Metric System
- 20. Converting Metric Units to English Units
- 21. Customary Units of Measure
- 22. Add and Subtract Units of Measure, Time Zones
- 23. Multiplication and Formulas
- 24. Quiz 4
- 25. Special Project
- 26. Review Game
- 27. TEST
- 28. ALTERNATE TEST

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UNIT 9: STATISTICS AND GRAPHING		
	Assignment Title	
Prediction and Probability	11. Problem Solving	
2. Ratios	12. Quiz 3	
3. Ratios and Division of Decimals	13. Positive and Negative Numbers	
4. Quiz 1	14. Coordinate Graphs	
5. Reading Bar Graphs and Line Graphs	15. Quiz 4	
Reading Picture and Circle Graphs	16. Special Project	
7. Quiz 2	17. Review Game	
8. Mean, Mode, and Median	18. TEST	
Statistics: Averaging	19. ALTERNATE TEST	
10. Averages, Equalities, and Inequalities		

	UNIT 10: REVIEW	
Assignment Title		
Operating on Whole Numbers	13. Adding and Subtracting Decimals	
Basic Operations and Rounding	14. Multiplying Decimals	
3. Multiplying and Dividing Whole Numbers	15. Dividing Decimals and Rounding Numbers	
4. Quiz 1	16. Quiz 4	
Fractions, Averages, and Graphs	17. Patterns and Number Sequences	
6. Picture, Bar, and Pie Charts	18. Rounding and Missing Number Problems	
7. Project: Graph	19. Problem Solving	
8. Quiz 2	20. Quiz 5	
Adding and Subtracting Fractions	21. Special Project	
10. Multiplying Mixed Numbers	22. Review Game	
11.Dividing Mixed Numbers	23. TEST	
12. Quiz 3	24. ALTERNATE TEST	

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