

MATH TOPICS

continued

Operations and Algebraic Thinking

- Even and Odd Numbers
- Function Tables
- Identify, Generate, Explain, and Write Patterns
- Prime Numbers
- Common Denominators, Factors, and Multiples
- Additive, Associative, and Commutative Properties of Addition and Multiplication
- Distributive, Identity, and Zero Properties

Measurement, Data, and Geometry

- Estimate, Compare, and Measure Length, Mass, and Volume
- Convert Customary and Metric Units
- Elapsed Time and Fractional Time
- Decimals and Fractions with Money
- Compare, Draw, and Measure Data on a Line Plot
- Measure Angles
- Classify Angles, Quadrilaterals, Triangles
- Calculate Perimeter and Area
- Identify Line of Symmetry
- Interpret, Compare, and Create a Bar Graph, Picture Graph, Line Plot, and Tally

All areas use problem-solving activities to connect Mathematics to a real-world context.

The topics listed are topics that may be covered during the course of the school year.

Berkeley Heights Public Schools

345 Plainfield Ave
Berkeley Heights, NJ 07922

THOMAS P. HUGHES - 464-1717

MOUNTAIN PARK - 464-1713

WILLIAM WOODRUFF - 464-1723

**BERKELEY HEIGHTS
PUBLIC SCHOOLS
2019 - 2020**



**GRADE 4
CURRICULUM TOPICS**

LANGUAGE ARTS LITERACY TOPICS

Writing Units of Study

- The Writing Community
- Personal Narrative
- Fiction
- Expository Nonfiction (Research)
- Functional Writing
- Poetry
- Opinion Writing

Grammar

- Sentence Structure
- Sentence Parts
- Nouns
- Verbs
- Pronouns
- Adjectives
- Adverbs
- Prepositions
- Capitalization
- Punctuation
- Quotation Marks

Reading Skills/Units of Study

- Pre-reading
- Reading
- Post-reading
- Story Elements

LANGUAGE ARTS LITERACY TOPICS

continued

- Reader's Response
- Literal, Interpretive, and Evaluative Comprehensions
- Nonfiction
- Realistic Fiction
- Persuasion
- Fantasy
- Author Study
- Critical Thinking

Spelling

Each student will be assessed and placed in the appropriate developmental group.

- Letter Name
- Within Word Pattern
- Syllable Juncture

Handwriting

- Review formation of letters in cursive

SCIENCE TOPICS

- Scientific Process
- Science and Society
- Mathematical Applications
- Weathering and Erosion
- Earth Processes
- Structure and Function
- How Organisms Process Information
- Transfer of Energy
- Using Engineering Design with Force and Motion Systems
- Waves and Information

SOCIAL STUDIES TOPICS

- Land, People, and Regions of the U.S.
- New Jersey History
- Civics and Government
- Map Skills
- Natural Resources
- Immigration
- U.S. Constitution

MATH TOPICS

Number and Operations in Base Ten

- Add and Subtract Decimals and Multi-Digit Whole Numbers
- Divide by Single-Digit Divisor with Remainder
- Multiply Whole Numbers & Decimals
- Compare and Order Decimals to Hundredths
- Place Value and Expanded Form to Billions

Number and Operations - Fractions

- Addition, Subtraction, and Multiplication of Fractions and Mixed Numbers
- Rename Fractions and Mixed Numbers
- Compare Decimals and Fractions, Equivalents
- Place Fractions on a Number Line