

Pocantico Hills School
4th Grade Math Curriculum

Process Strands: Strategies the students will use in 4th grade to develop skills to tackle math.

- Understand and explain how to organize their thought process
- Increase their use of mathematical vocabulary and language when communicating with others
- Connect and apply mathematical information to solve problems
- Use verbal and written language, physical models, drawing charts, graphs, tables, symbols, and equations as representations
- Make organized lists to solve numerical problems
- Analyze problems by observing patterns
- Use trial and error to solve problems
- Verbally explain their rationale for strategy selection
- Make pictures/diagrams of problems
- Determine what information is needed to solve a problem
- Organize and accurately label work
- Recognize, understand, and make connections in their everyday experiences to mathematical ideas

General curriculum:

Month	Content strand
September	Investigating Length & Adding and Subtracting
October	Investigating 5-digit Numbers & Finding Fractions
November	Finding Fractions & Multiplying 1-digit Numbers
December	Working with Time & Linking Multiplication and Division
January	Exploring Shapes, Perimeter & Area
February	Dealing with Data & Probability, Graphing & Measurement
March	Test & Multiplying by 2-digit Numbers
April	Investigating Shapes & Angles, Working with Fractions & Decimals
May	Dividing Large Numbers & Working with Weight
June	Hands-On Algebra

Vocabulary: Too many to list! If you are interested, we have included a suggested list of mathematical language given by New York State Department of Education.

<http://www.emsc.nysed.gov/3-8/4mathlang.doc>