Math 1 (Grade 1) (PACEs 1001-1012)

The student:

- Reviews and learns numbers in symbol, name, and **number words** from zero to ten.

- **Counts** and **writes** from zero to one hundred.

- Solves simple **addition, subtraction,** and **word problems.**

- Learns to **tell time.**

- Learns the concept of **money** and counting coins with pennies, nickels, and dimes.

- Reviews **length** comparison: longer and shorter.

- Learns liquid **measurements:** cups, pints, and quarts.

- Reviews recognition of **basic shapes.**

- Reviews **order of numbers:** before, between, after; and contrasting numbers—same, not the same, more than, and less than.

Math 2 (Grade 2) (PACEs 1013-1024)

The student:

- Continues learning to **add** and **subtract,** to carry and borrow 2- and 3-digit numbers, solves word problems, and works addition and subtraction facts vertically and horizontally.

- Completes **timed drills** and **oral drills.**

- Learns to relate **multiplication** to addition.

- Counts and writes by twos, fives, and tens; counts and writes from 1-500; writes numbers in **place values** of 1s, 10s, and 100s; and writes numbers on a calendar.

- Recognizes and writes **number words.**

- Learns to identify **odd** and **even** numbers.

- Reviews **telling time.**

- Reviews numbers that are **greater than** and **less than.**

- Learns to relate **cent signs** to pennies, nickels, dimes, and quarters.

- Learns to **measure** objects in inches and centimeters, and compares equivalents for cups to pint, pints to quart, and quarts to gallon.

- Recognizes and constructs **geometric shapes.**

Math 3 (Grade 3) (PACEs 1025-1036)

The student:

- **Adds** 3-digit to 3-digit numbers, **subtracts** 3-digit from 3-digit numbers, and solves word problems with carrying and borrowing.

- Learns **multiplication facts** 1-9 with timed drills and oral drills.

- Reviews numbers in **place values** of 1s, 10s, and 100s; writes numbers to count on a number line; reviews and writes on charts; and learns to use picture tables to determine height.

- Reviews **telling time** and learns half-hour, quarter-hour, and 5-minute increments.

- Learns **Roman numerals**.

- Reviews **measurements** of weight, liquid, and length; converts inches to feet, feet to yards; reads scales in pounds; and learns the abbreviations in., ft., and yd.

- Writes **ordinals** first through tenth.

- Learns to **divide** objects or **sets** into halves.
  Math Builder, a computerized mathematic flash card program, is also available for additional reinforcement and drill.

Math 4 (Grade 4) (PACEs 1037-1048)

The student:

- Learns **additional multiplication facts;** 10 and 11 times tables, and simple division skills; identifies and uses relationships between operations, such as division as the inverse of multiplication, to solve problems.

- Matches word sentences with number sentences and reviews **number words** and symbols.

- **Rounds numbers** on a number line to the nearest 5 and 10.

- Reviews and learns **Roman numerals** 1-50 and word problems converting to numerals.

- Learns to borrow and **subtract** 3-digits minus 3-digits, checks by addition, and borrows and subtracts from 10s, 100s, and 1000s.

- Learns to use the **terms** addend, sum, minuend, subtrahend, difference, multiplier, multiplicand, and product to match correct numbers in problems.

- Learns **fractions** through shaded parts of a circle, learns equivalency in fractions, and adds and subtracts like fractions.

- Learns to **add** and carry to 10s, 100s, and 1000s—4-digits and 4-digits.

- Reviews and demonstrates understanding of basic **money** concepts and skills.
- Reviews **converting** inches to feet, feet to yards, and inches to yards; reading a scale in pounds; and converting cups to pints, pints to quarts, and quarts to gallons.

Math 5 (Grade 5) (PACEs 1049-1060)

The student:
- Defines and identifies new **math terms:** quotient, dividend, numerator, and denominator.
- Uses addition, subtraction, division, and multiplication with **fractions;** identifies proper and improper fractions; and reduces fractions to lowest terms.
- **Factors** numbers from least to greatest, and finds the Greatest Common Factor (**GCF**) and the Least Common Denominator (**LCD**) of fractions.
- Recognizes the **place value** of each digit in numbers up to thousands.
- Learns to represent and compare whole numbers and **decimals.**
- Learns the **commutative properties** of addition and multiplication and **estimation.**
- Compares numbers, sentences, words, decimals, and fractions using > and < **symbols.**
- Defines and identifies **prime numbers.**
- References **charts, pictographs,** and **line graphs.**
- Writes **Roman numerals** 1-399.
- Learns basic **geometry**—points, lines, rays, and angles; identifies geometric shapes; identifies similar and congruent figures; and finds the volume, perimeter, and area of figures.
- Learns about **probabilities** and **ratios.**
- Processes **simple unit conversions** such as centimeters to meters within a system of measurement.