

*Lakeview Public Schools*  
Mathematics Curriculum  
*By Course, Standard, Benchmark*  
**Kindergarten Mathematics**

**MA01 Understands and applies a variety of strategies in the problem-solving process**

2421 01 Uses physical objects to represent problems

**MA02 Understands and applies properties of the concept of numbers**

2422 01 Recognizes numbers to thirty

2423 02 Uses one to one correspondence to thirty

2424 03 Understands that a number represents a quantity to thirty

2425 04 Understands the concepts of equalities and inequalities (Oral) to thirty

2426 05 Understands the sequence of numbers to thirty

5897 06 Counts to 110 by 1's

6449 07 Counts to 100 by 5's

5898 08 Counts to 100 by 10's

**MA04 Understands and applies properties of the concept of measurement**

2428 01 Describes the attributes of familiar shapes

5899 02 Describes the use of measurement tools

**MA05 Understands and applies properties of the concepts of geometry**

2429 01 Knows two dimensional geometric shapes

2430 02 Locates and describes objects in terms of their orientation, direction, and relative position (up, down, under, over)

2432 03 Understands that patterns can be made by putting different shapes together or taking them apart

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**1st Grade Mathematics**

**MA01 Understands and applies a variety of strategies in the problem-solving process**

2436 01 Uses more than one problem solving strategy (e.g., tallies, number line, number grids)

2459 02 Uses verbal explanation of problem solving

**MA02 Understands and applies properties of the concept of numbers**

2437 01 Counts by 1's, 2's, 5's, and 10's to 200

2439 02 Writes 2 and 3 digit numbers from dictation

2440 03 Understands the concepts of 2 digit equalities and inequalities up to 20 (e.g., name

collection box)

2443 04 Knows even and odd numbers to 200

6446 05 Uses 2 and 3 given digits to make the largest or smallest number possible

6447 06 Knows how to write address and phone number

6448 07 Writes number scroll to 1000

**MA03 Understands and applies procedures while performing the process of computation**

2442 01 Adds and subtracts whole numbers using the numbers one to ten and multiples of 10

2444 02 Solves problems involving addition and subtraction of whole numbers (What's my rule)

2445 03 Understands how to exchange pennies and dimes

5002 04 Knows coin names

**MA04 Understands and applies properties of the concept of measurement**

2448 01 Understands the concept of time and how it is measured (e.g., hour)

**MA05 Understands and applies properties of the concepts of geometry**

2451 01 Recognizes three dimensional geometric shapes

**MA06 Understands and applies concepts of statistics and data analysis**

2455 01 Understands that observations about objects or events can be organized and displayed in graphs and tables

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**2nd Grade Mathematics**

**MA01 Understands and applies a variety of strategies in the problem-solving process**

2458 01 Uses pictures, lists, and tables to represent problems (e.g., addition, subtraction, simple fractions, money)

2460 02 Uses number sentence form

2811 03 Uses number sentence form (e.g., model number to represent answers)

**MA02 Understands and applies properties of the concept of numbers**

2462 01 Counts on 2's, 5's, and 10's forward or backward from any 2 or 3 digit number

2464 02 Knows how to label and shade fractional parts of a rectangle

2465 03 Understands the concept of equivalent names for 2 and 3 digit numbers

2466 04 Uses comparison symbols (e.g.,  $>$ ,  $<$ ,  $=$ )

2468 05 Uses number patterns (e.g., frames and arrows)

5003 06 Identifies place value of three digit numbers

5004 07 Reads 2, 3, and 4 digit numbers

**MA03 Understands and applies procedures while performing the process of**

## **computation**

- 2467 01 Adds and subtracts whole numbers up to ninety nine with various strategies (e. g., number lines, frames and arrows, and what's my rule)
- 5005 02 Knows how to add three numbers mentally
- 5006 03 Understands coin values and can combine various coins to equal one dollar
- 6455 04 Writes addition and subtraction fact families (e. g. fact triangle, turn arounds)
- 6456 05 Knows the complements of ten
- 6457 06 Uses the multiplicative identity

### **MA04 Understands and applies properties of the concept of measurement**

- 2471 01 Understands basic measures, length, width, height, weight, and temperature
- 2474 02 Compares attributes of length and width, height, weight, and temperature (e.g., less than, greater than, equal to)
- 2472 03 Uses measurement tools
- 2473 04 Understands time and how it is measured (five minute intervals)
- 6462 05 Knows calendar concepts and skills

### **MA05 Understands and applies properties of the concepts of geometry**

- 2476 01 Understands properties of two and three dimensional geometric shapes (identifies and constructs)
- 2477 02 Understands and applies symmetry
- 6466 03 Knows how to draw line segments

### **MA06 Understands and applies concepts of statistics and data analysis**

- 2480 01 Uses bar graphs and tables to display observational data (plots and compares data)

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**3rd Grade Mathematics**

### **MA01 Understands and applies a variety of strategies in the problem-solving process**

- 2813 01 Analyzes pertinent and irrelevant information when solving problems
- 2814 02 Uses various computational methods in problem solving situations (e.g., pencil and paper, mental arithmetic, calculator)
- 2807 03 Understands the relationship between manipulative, graphs and number problems

### **MA02 Understands and applies properties of the concept of numbers**

- 2815 01 Counts forward and back by 10's to 9990, 100's to 9900, and 1000's to 9000
- 2816 02 Identifies and understands place value to 100,000
- 2817 03 Understands whole number division as equal sharing or as making equal groups with or without a remainder
- 2812 04 Represents whole numbers, fractions, and decimals using concrete, pictorial, and

symbolic representations

6464 05 Writes dollars and cents notation

**MA03 Understands and applies procedures while performing the process of computation**

2867 01 Adds and subtracts multi column whole numbers

2870 02 Knows multiplication facts zero through ten

2875 03 Knows a number divided by itself is one

2871 04 Rounds whole numbers to the nearest ten, hundred, and thousand

2872 05 Mentally adds and subtracts combinations of whole numbers (zero through twenty)

2506 06 Understands that addition and subtraction are inverses of one another as are multiplication and division; one operation undoes what the other does

2874 07 Adds and subtracts involving dollars and cents

2820 08 Develops strategies for estimating quantity and evaluate the reasonableness of their estimates

0486 09 Uses an array model for multiplication

**MA04 Understands and applies properties of the concept of measurement**

6463 01 Can tell time to one minute levels

**MA05 Understands and applies properties of the concepts of geometry**

6468 01 Recognizes right angles

**MA06 Understands and applies concepts of statistics and data analysis**

2822 01 Understands how to collect and organize data to answer and interpret questions

2824 02 Understands how to construct and interpret tables and graphs

2528 03 Understands that tables and graphs can show how the values of one quantity are related to the values of another and that tables and graphs can make it easier to identify patterns

**MA08 Understands and applies properties of functions and algebra**

2825 01 Can identify and continue patterns of numbers

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**4th Grade Mathematics**

**MA01 Understands and applies a variety of strategies in the problem-solving process**

2483 01 Uses problem solving strategies (e.g., elapsed time, data tables, personal reference, rate tables)

**MA02 Understands and applies properties of the concept of numbers**

2491 01 Understands that fractions are division problems and can rename fractions as a decimal or percent

- 2494 02 Reads, writes, and understands place value and numbers to 1,000,000
- 2497 03 Knows and uses square numbers
- 6450 04 Uses the terms numerator and denominator

**MA03 Understands and applies procedures while performing the process of computation**

- 2503 01 Multiplies two digit whole numbers
- 2504 02 Mentally multiplies combinations of whole numbers
- 2505 03 Divides whole numbers by single digit numbers
- 2510 04 Adds and subtracts decimals to the hundredths place
- 2512 05 Multiplies dollars and cents
- 2514 06 Adds and subtracts fractions with like denominators
- 2501 07 Identifies a range of possible answers for a given problem situation

**MA04 Understands and applies properties of the concept of measurement**

- 2517 01 Determines whether measurements of length, area, weight, and time are reasonable
- 2522 02 Uses a map scale to estimate distances
- 2518 03 Knows how to find area by counting squares

**MA05 Understands and applies properties of the concepts of geometry**

- 2538 01 Understands points, line segments, rays and lines
- 2539 02 Knows how to describe right angles and parallel lines
- 2525 03 Uses coordinate graphing
- 2523 04 Knows properties of parallelograms
- 2524 05 Understands mirror reflections

**MA06 Understands and applies concepts of statistics and data analysis**

- 2526 01 Understands that data represents specific pieces of information about real world objects or activities
- 0519 02 Uses the statistical landmarks of maximum and minimum
- 2529 03 Constructs and interprets pie charts, and line graphs

**MA07 Understands and applies concepts of probability**

- 2530 01 Understands that the word "chance" refers to the likelihood of an event

**MA08 Understands and applies properties of functions and algebra**

- 2541 01 Knows how to construct a pattern and articulates why the pattern works (or, "the rule of the pattern") given general constraints
- 2799 02 Understands inverse operations
- 2532 03 Uses patterns and relationships to represent mathematical situations

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**5th Grade Mathematics**

**MA01 Understands and applies a variety of strategies in the problem-solving process**

- 2759 01 Uses order of operations
- 2804 02 Understands that there may be more than one possible answer

**MA02 Understands and applies properties of the concept of numbers**

- 2767 01 Knows whether a number is prime or composite
- 2768 02 Uses factors and multiples when renaming fractional numbers
- 2769 03 Knows fractional parts of regions and collections (sets) of objects (e.g., shading 100 grid)
- 2761 04 Uses negative numbers to represent appropriate situations

**MA03 Understands and applies procedures while performing the process of computation**

- 2772 01 Divides whole numbers with divisors of two digits
- 2773 02 Multiplies decimals and fractions
- 2775 03 Rounds decimals to thousandths
- 2778 04 Converts between decimals, mixed numbers and percents mentally
- 2774 05 Knows prime factorization
- 6459 06 Compares, orders and adds using positive and negative numbers

**MA04 Understands and applies properties of the concept of measurement**

- 2781 01 Uses a compass, protractor and scale for making measurements
- 2783 02 Understands how to find area from linear dimensions (e.g., rectangles, triangles, parallelograms)
- 2785 03 Uses formulas of rectangles, triangles and parallelograms
- 2787 04 Selects and uses appropriate units of measurement
- 2788 05 Understands how to find perimeter and circumferences of polygons and circles
- 2784 06 Understands volume and how it is measured
- 0448 07 Converts units of measurement to other units of measurement within a given system of measurement English to English, metric to metric)

**MA05 Understands and applies properties of the concepts of geometry**

- 0231 01 Understands the characteristics of angles and can draw angles with a protractor
- 2791 02 Understands parallel, perpendicular, congruent, and symmetrical lines and shapes

**MA06 Understands and applies concepts of statistics and data analysis**

- 5017 01 Uses the statistical landmarks of range, mean, mode, and median

**MA08 Understands and applies properties of functions and algebra**

- 0250 01 Uses X, Y coordinates when graphing within four quadrants