| KINDERGARTEN | Suggested Manipulatives |
| :--- | :--- |
| NY-K.CC.1-3: Know number names and count the sequence. | Counting Bears <br> Base Ten Blocks <br> Connecting Cubes <br> Number Lines <br> Ten Frames |
| NY-K-CC.4-5: Count to tell the number of objects. | Counters <br> Ten Frames <br> Number Cubes |
| BY-K.CC.6-7: Compare numbers. | Base Ten Blocks <br> Connecting Cubes |
| NY-K.OA.1-5: Understand addition as putting together and adding to, and | Ten Frames <br> Number Cubes |
| understand subtraction as taking apart and taking from. | Connecting Cubes <br> Counting Bears |
| Two-Colored Counters |  |, | Connecting Cubes |
| :--- |
| Counting Bears |
| Two-Colored Counters |

## Math Manipulatives by Standard

| GRADE 1 | Standard |
| :--- | :--- |
| NY-1.OA.1-2: Represent and solve problems involving addition and subtraction. | Ten Frames <br> Connecting Cubes <br> Counters <br> Number Lines |
|  | Base Ten Blocks |

## Math Manipulatives by Standard

| GRADE 2 |  |
| :---: | :---: |
| Standard | Suggested Manipulatives |
| NY-2.OA.1: Represent and solve problems involving addition and subtraction. | Base Ten Blocks Connecting Cubes Counters Hundreds Charts Number Lines |
| NY-2.OA.2: Add and subtract within 20. | Base Ten Blocks <br> Connecting Cubes <br> Counters <br> Ten Frames <br> Number Lines |
| NY-2.OA.3-4: Work with equal groups of objects to gain foundations for multiplication. | Base Ten Blocks <br> Connecting Cubes <br> Counters <br> Geoboards with Geobands <br> Graphing Mats |
| NY-2.NBT.1-4: Understand place value. | Base Ten Blocks H-T-O Charts Connecting Cubes Hundreds Charts Dice |
| NY-2.NBT.5-9: Use place value understanding and properties of operations to add and subtract. | Base Ten Blocks H-T-O Charts Connecting Cubes Hundreds Charts Dice |
| NY-2.MD.1-4: Measure and estimate lengths in standard units. | Rulers <br> Measuring Tape Yard Sticks |
| NY-2.MD.5-6: Relate addition and subtraction to length. | Number Lines <br> Rulers <br> Base Ten Blocks <br> Connecting Cubes <br> Counters |
| NY-2.MD.7-8: Work with time and money. | Clocks <br> Money |
| NY-2.MD.9-10: Represent and interpret data. | Rulers <br> Number Lines <br> Graphing Mats <br> Connecting Cubes <br> Unifix Cubes |
| NY-2.G.1-3: Reason with shapes and their attributes. | Geoboards with Geobands <br> Wooden Geometric Solids <br> Attribute Blocks <br> Pattern Blocks <br> Fraction Circles |

## Math Manipulatives by Standard

| GRADE 3 |  |
| :--- | :--- |
| Standard | Suggested Manipulatives |
| NY-3.OA.1-4: Represents and solve problems involving multiplication and division. | Counters <br> Connecting Cubes <br> Place Value Disks <br> Abacus <br> Base Ten Blocks |
| NY-3.OA.5-6: Understand properties of multiplication and the relationship between <br> multiplication and division. | Counters <br> Connecting Cubes <br> Place Value Disks <br> Abacus <br> Base Ten Blocks |
| NY-3.OA.7: Multiply and divide within 100. | Counters <br> Connecting Cubes <br> Place Value Disks |
| Abacus |  |
| Base Ten Blocks |  |

## Math Manipulatives by Standard

| GRADE 4 | Standard |
| :--- | :--- |
| NY-4.OA.1-3: Use the four operations with whole numbers to solve problems. | Counters <br> Connecting Cubes <br> Place Value Disks |
| Abacus |  |
| Base Ten Blocks |  |

## Math Manipulatives by Standard

| GRADE 5 |  |
| :---: | :---: |
| Standard | Suggested Manipulatives |
| NY-5.OA.1-2: Write and interpret numerical expressions. | Place Value Disks <br> Connecting Cubes <br> Counters <br> Base Ten Blocks |
| NY-5.0A.3: Analyze patterns and relationships. | Base Ten Blocks Hundreds Charts Place Value Disks Connecting Cubes |
| NY-5.NBT.1-4: Understand the place value system. | Place Value Charts Fraction Tiles Connecting Cubes Base Ten Blocks |
| NY-5.NBT.5-7: Perform operations with multi-digit whole numbers and with decimals to hundredths. | Place Value Charts Connecting Cubes Hundreds Charts Abacus |
| NY-5.NF.1-2: Use equivalent fractions as a strategy to add and subtract fractions. | Fraction Tiles <br> Fraction Circles <br> Connecting Cubes |
| NY-5.NF.3-7: Apply and extend previous understandings of multiplication and division to multiply and divide fractions. | Fraction Tiles Fraction Circles Connecting Cubes |
| NY-5.MD.1: Convert like measurement units within a given measurement system. | Rulers |
| NY-5.MD.2: Represent and interpret data. | Number Lines Rulers <br> Fraction Tiles Beakers |
| NY.5.MD.3-5: Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition. | Base Ten Blocks Connecting Cubes |
| NY-5.G.1-2: Graph points on the coordinate plane to solve real-world and mathematical problems. | Geoboards with Geobands |
| NY-5.G.3-4: Classify two-dimensional figures into categories based on their properties. | Pattern Blocks Geoboards with Geobands |

## My Math Manipulative Kit Lists

| Grade K |  |
| :--- | :--- |
| Attribute Blocks | Number Cube, Red - Numbers 0-5 |
| Bucket Balance Scale | Number Cube, Blue - Numbers 5-10 |
| Blank Cubes with Labels | Pattern Blocks |
| Classroom Dial Spinner | Student Clocks |
| Color Tiles | Two-Colored Counters |
| Connecting Cubes | Two-Sided Graphing Mat |
| Demonstration Clock | Wooden Geometric Solids |


| Grades 1-2 |  |
| :--- | :--- |
| Attribute Blocks | Geoboards with Geobands |
| Base Ten Blocks - Cubes | Money - Dollar Bills |
| Base Ten Blocks - Flats | Money - Quarters |
| Base Ten Blocks - Rods | Money - Dimes |
| Base Ten Blocks - Units | Money - Nickels |
| Bucket Balance Scale | Money - Pennies |
| Classroom Dial Spinner | Number Cube, Red - Numbers 0-5 |
| Color Tiles | Number Cube, Blue - Numbers 5-10 |
| Connecting Cubes | Pattern Blocks |
| Demonstration Clock | Student Clocks |
| Fraction Circles | Two-Color Counters |
| Fraction Tiles | Wooden Geometric Solids |


| Grades 3-5 |  |
| :--- | :--- |
| Base Ten Blocks - Cubes | Geoboards with Geobands |
| Base Ten Blocks - Flats | Metric Units of Mass |
| Base Ten Blocks - Rods | Money - Dollar Bills |
| Base Ten Blocks - Units | Money - Quarters |
| Blank Cubes with Labels | Money - Dimes |
| Bucket Balance Scale | Money - Nickels |
| Classroom Dial Spinner | Money - Pennies |
| Color Tiles | Pattern Blocks |
| Connecting Cubes | Place Value Disks |
| Demonstration Clock | Student Clocks |
| Fraction Circles | Transparent Spinners |
| Fraction Tiles | Two-Color Counters |


| Additional Manipulative Options |  |
| :--- | :--- |
| Abacus | Number Lines |
| Algebra Tiles | Pop-Its |
| Counting Bears | Playing Cards |
| Cuisenaire Rods | Protractor |
| Dice | Rekenreks |
| Dominoes | Rulers |
| H-T-O Charts | Ten Frame |
| Hundreds Chart | Unifix Cubes |

## Manipulatives Image Glossary

| Abacus | Algebra Tiles | Attribute Blocks | Base Ten Blocks - Cubes |
| :---: | :---: | :---: | :---: |
| Base Ten Blocks - Flats | Base Ten Blocks - Rods | Base Ten Blocks - Units | Blank Cubes with Labels |
| Bucket Balance Scale | Classroom Dial Spinner | Color Tiles | Connecting Cubes |
| Counting Bears | Cuisenaire Rods | Demonstration Clock | Dominoes |
| Dice | Fraction Circles | Fraction Tiles | H-T-O Charts |


| Hundreds Chart | Geoboards with Geobands $\square$ | Metric Units of Mass | Money - Dollar Bills |
| :---: | :---: | :---: | :---: |
| Money - Quarters | Money - Dimes | Money - Nickels | Money - Pennies |
| Number Cubes, Red Numbers 0-5 | Number Cubes, Blue Numbers 6-10 |  | Pattern Blocks |
| Playing Cards | Pop-Its | Protractors | Rekenreks |
| Rulers | Student Clocks | Ten Frames | Transparent Spinners |
| Two-Color Counters | Two-Sided Graphing Mat | Unifix Cubes | Wooden Geometric Solids |

