Parents, you can help your child become a more successful math student by working on any of these math skills:

Kindergarten students:

* identify and sequence numbers 1-31
* count objects with one-to-one correspondence
* count forward and backward to at least 20
* find a number that is one more and one less than a given number
* find sums and differences of numbers between 1 and 10
* compose and decompose numbers up to 10
* identify and extend simple patterns
* recognize 2D shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, cones, cylinders, and spheres
* sort objects by shape, size, color, and thickness
* use basic shapes to model objects in the real world, for example a soup can is a model of a cylinder
* compare objects using words such as same, lighter, longer, above, between, and next to
* compare and order objects using length or weight

1st graders:

* identify, read, and write numbers 1-120
* count forward and backward up to 120
* find 10 more and 10 less than a given number
* order numbers up to 120
* compare numbers up to 120 using words such as equal, not equal, less than, and more than
* compose and decompose numbers up to 12 with an emphasis on making 10
* skip count by 2s, 5s, and 10s
* recognize, extend, and create simple patterns
* determine if simple addition and subtraction equations are true or false
* identify the missing number in an equation, for example: 3 + \_\_\_ = 7
* identify and describe 2D such as triangles, squares, rectangles, and circles
* identify and describe 3D figures such as rectangular prisms, cylinders, cones, and spheres
* measure the length of an object in terms of multiple copies of another object, for example, the line is 4 paperclips long
* tell time to the hour and half hour
* identify pennies, nickels, and dimes
* find the value of a group of coins up to one dollar

2nd graders:

* identify, read, and write numbers up to 1,000
* understand place value in terms of hundreds, tens, and ones
* find 10 more and 10 less than a given number
* round numbers up and down to the nearest 10 and 100
* compare and order numbers up to 1,000
* use strategies such as fact families, doubles plus or minus one, counting on, and counting back to generate and solve addition and subtraction facts
* demonstrate fluency with basic addition and subtraction facts
* estimate sums and differences up to 100
* identify, create, and describe simple number patterns
* describe, compare, and classify 2D and 3D figures by the number and shape of faces, and the number of sides, edges, and vertices (corners)
* identify 2D shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons
* identify 3D shapes such as cubes, rectangular prisms, cones, cylinders, and spheres
* measure length to the nearest centimeter or inch
* tell time to the quarter hour and distinguish between AM and PM
* identify pennies, nickels, dimes, and quarters
* find the value of a group of coins and determine combinations of coins that equal a given amount

3rd graders:

* identify numbers up to 100,000 and describe them in terms of place value (ten thousands, thousands, hundreds, tens, and ones)
* find 100 more or less, 1,000 more or less, and 10,000 more or less than a given number
* round numbers to the nearest 10, 100, 1,000 and 10,000
* compare and order numbers up to 100,000
* add and subtract multi-digit numbers
* represent multiplication facts using a variety of approaches, such as repeated addition, equal-size groups, arrays, area models, equal jumps on a number line, and skip counting
* represent division facts using a variety of approaches, such as repeated subtraction, equal sharing, and forming equal groups
* recognize the relationship between multiplication and division
* recognize fractions as parts of a whole
* order and compare unit fractions and fractions with like denominators
* understand and apply input and output rules involving addition, subtraction, and multiplication
* identify parallel and perpendicular lines
* identify polygons with a given number of sides, such as pentagons, hexagons, and octagons
* use half units when measuring distance
* find the perimeter of a polygon
* tell time to the minute
* make change up to one dollar with the fewest coins possible

4th graders:

* demonstrate fluency with multiplication and division facts
* use and understanding of place value to multiply a number by 10, 100, and 1,000
* multiply and divide multi-digit numbers
* estimate products and quotients
* represent equivalent fractions
* use models to order and compare fractions, mixed numbers, and improper fractions
* add and subtract fractions with like denominators
* use place value to describe decimals in terms of thousands, hundreds, tens, ones, tenths, hundredths, and thousandths
* compare and order decimals
* round decimals to the nearest tenth
* create and use input and output rules involving addition, subtraction, multiplication and division
* describe and classify triangles (equilateral, right, obtuse, and acute)
* describe and classify quadrilaterals, including squares, rectangles, trapezoids, rhombuses, parallelograms, and kites
* measure and compare angles
* find the area of 2D figures