

# TEKS

## Kindergarten

- Indicates standards that can be addressed using the MathRack
- Count with and without objects forward and backward to at least 20
- Read, write, and represent whole numbers from 0 to at least 20, with and without objects or pictures
- Count a set of objects, up to at least 20, and demonstrate that the last number said tells the number of objects in the set regardless of their arrangements
- Recognize instantly the quantity of a small of group of objects in organized and random arrangements
- Generate a set using concrete and pictorial models that represents a number that is more than, less than, and equal to a given number, up to 20
- Generate a number that is one more than or one less than another number up to at least 20
- Compare sets of objects up to at least 20 in each set using comparative language
- Compose and decompose numbers up to 10 with objects and pictures
- Model the action of joining to represent addition and the action of separating to represent subtraction
- Solve word problems using objects and drawings to find sums up to 10 and differences within 10
- Explain the strategies used to solve problems involving adding and subtracting within 10 using spoken words , concrete and pictorial models, and number sentences
- Represent addition and subtraction with objects, drawings, acting out situations, verbal explanations, or number sentences

# TEKS

## 1st Grade

- 🌐 **Indicates standards that can be addressed using the MathRack**
- 🌐 **Recognize instantly the quantity of structured arrangements such as seen on a die or a ten-frame**
  - **Use concrete and pictorial models to compose and decompose numbers up to 120 as so many hundreds, so many tens, and so many ones in more than one way**
  - **Use objects, pictures, and expanded and standard form to represent numbers up to 120**
  - **Use concrete and pictorial models to determine the sum of a multiple of ten and a one-digit number in problems to 99**
- 🌐 **Use objects and pictorial models to solve word problems involving joining, separating, and comparing sets within 20 and unknowns as any one of the terms in the problem.**
- 🌐 **Compose 10 with two or more addends with and without concrete objects**
- 🌐 **Apply basic fact strategies to add and subtract within 20 using strategies, including making a 10 and decomposing a number leading to a 10**
- 🌐 **Explain strategies used to solve addition and subtraction problems up to 20 using spoken words, objects, pictorial models, and number sentences**
  - **Skip count by twos, fives, and tens to 100**
  - **Skip count by twos, fives, and tens to determine the total number of objects up to 120 in a set**
  - **Use relationships to determine the number that is 10 more and 10 less than a given number up to 120**
- 🌐 **Represent word problems involving addition and subtraction of whole numbers to 20 using concrete and pictorial models and number sentences.**

- **Understand that the equal sign represents a relationship where statements on each side of the equal sign are true**
- **Determine the unknown whole number in an addition or subtraction equation when the unknown may be any one of the three or four terms in the equation**
- **Identify relationships between addition facts and related subtraction sentences such as  $3 + 2 = 5$  and  $5 - 2 = 3$**
- **Apply properties of operations as strategies to add and subtract such as if  $2 + 3 = 5$  is known, then  $3 + 2 = 5$**

# TEKS

## 2nd Grade

 Indicates standards that can be addressed using the MathRack

- **Locate the position of a given whole number on an open number line**
- **Name the whole number that corresponds to a specific point on a number line**
-  **Recall basic facts to add and subtract within 20 with automaticity**
- **Use mental strategies, flexible methods, and algorithms based on a knowledge of place value and equality to add and subtract two-digit numbers.**
- **Solve one-step and multistep word problems involving addition and subtraction of two-digit numbers using a variety of strategies based on place value, including algorithms**
- **Generate and solve problems situations for a given mathematical number sentence involving addition and subtraction of whole numbers within 100**
- **Model, create, and describe contextual multiplication situations in which equivalent sets of concrete objects are joined**
- **Use relationships to determine the number that is 10 or 100 more or less than a given number up to 1,200**
-  **Represent and solve addition and subtraction word problems where unknowns may be any one of the terms in the problem**