

## Mathematics Grade 3

### Concepts and Principles of Measurement

1. Choose and use appropriate units and measurement tools to quantify the properties of objects
2. Find the perimeter of a polygon with integer sides.

### Number and Operations

1. Understand the place value of whole numbers to 10,000
2. Calculate, and solve problems involving addition, subtraction, multiplication, and division
3. Memorize the multiplication table for numbers between one and ten.
4. Solve division problems in which a multi-digit number is evenly divided by a one digit number.
5. Students understand the relationship between whole numbers, simple fractions, and decimals
6. Identify place value for each digit in numbers to 10,000.
7. Use expanded notation to represent numbers.
8. Add and subtract simple fractions
9. Solve problems involving addition, subtraction, multiplication, and division of money amounts.

### Algebra and Functions

1. Select appropriate symbols, operations, and properties to represent, describe, simplify, and solve simple number relationships
2. Represent simple functional relationships
3. Recognize and use the commutative and associative properties of multiplication.

### Measurement and Geometry

1. Students describe and compare the attributes of plane and solid geometric figures (triangles, quadrilaterals, polygons) and use their understanding to show relationships and solve problems

### Statistics, Data Analysis, and Probability

1. Conduct simple probability experiments by determining the number of possible outcomes and make simple predictions
2. Summarize and display the results of probability experiments in a clear and organized way.

### Mathematical Reasoning (Not in Descartes)

1. Students make decisions about how to approach problems
2. Students use strategies, skills, and concepts in finding solutions
3. Students move beyond a particular problem by generalizing to other situations.