

Course Description of Math –Grade 2

By the end of grade two, students understand place value and number relationships in addition and subtraction, and simple concepts of multiplication and division. Students learn to model, represent, and interpret number relationships to create and solve problems involving addition, subtraction, multiplication, and division. Students understand measurement of quantities with appropriate units, classification of shapes and see relationships among them by paying attention to their geometric attributes. Students learn to collect and analyze data and verify the answers.

1. Number Sense

- Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000.
- Students estimate, calculate, and solve problems involving addition and subtraction of two-and three-digit numbers.
- Students model and solve simple problems involving multiplication and division.
- Students understand that fractions and decimals may refer to parts of a set and parts of a whole.
- Students model and solve problems by representing, adding, and subtracting amounts of money.
- Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places.

2. Algebra and Functions

- Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction.
- Measurement and Geometry
- Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured.
- Students identify and describe the attributes of common figures in the plane and of common objects in space.

3. Statistics, Data Analysis, and Probability

- Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations.
- Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways.

4. Mathematical Reasoning

- Students make decisions about how to set up a problem.
- Students solve problems and justify their reasoning.
- Students note connections between one problem and another.