

# *Ray's for Today Scope & Sequence:*

## *Level 3 - Ages 8 and 9*

### **Number Concepts**

- Review zero as “none” and placeholder
- Describing Commutative, Identity, and Associative Properties
- Adding multiple single digits in vertical column
- Review multiples of base ten system
- Review numbers to 1000
- Naming and writing numbers to hundred thousand
- Place values to hundred thousand
- Ordering numbers
- Greater than, less than, equal to, not equal to
- Roman numerals
- Multiples
- Odd/even numbers

### **Arithmetic Operations**

- Review addition/subtractions facts through story problems
- Addition, subtraction, multiplication, division vocabulary
- Multi-step addition/subtraction story problems
- Vertical addition of facts through 20
- Addend machine (addition function)
- Vertical subtraction of facts through 20
- Difference machine (subtraction function)
- Using addition to check subtraction
- Multiplication & division facts in vertical form
- Factor machine (multiplication function)
- Multiplication/division facts for eleven & twelve
- Short division
- Short division with remainder
- Doubles
- Divisibility
- Introduction to order of operations

### **Money**

- Review of bills and coins
- 20-, 50-, and 100-dollar bills
- Making change
- Add/subtract/multiply money
- Money story problems
- Cents as fractional part of a dollar
- Money as decimals

## **Time**

- Review calendar
- Review clocks and telling time to the minute
- Counting days until
- Review elapsed time
- Amount of time needed for planning
- Leap year, decade, century

## **Measurement**

- Fractions and measurement ( $\frac{1}{4}$  and  $\frac{1}{2}$  inches)
- Mile
- Review of customary measure & equivalencies
- Intro metric system – length, capacity, mass, & temperature

## **Geometric Constructions**

- Review plane and solid figures
- Corners (vertices) and sides of rectangles
- Polygons – table of shapes
- Length, width, height
- Review perimeter/area of rectangle
- Perimeter/area story problems
- Perimeter of different shapes
- Point, line, line segment, ray
- Angles
- Triangles
- Volume
- Visual perception
- Review scale drawing
- Using a map scale
- Transformations
- Similarity & congruence
- Symmetry

## **Fractions**

- Review fractional parts and writing a fraction
- Whole expressed as a fraction
- Proper/improper fractions
- Mixed numbers (as in measuring)
- Equivalent fractions (one denominator multiple of other)
- Introduction to comparing fractions
- Introduction to ordering fractions
- Fractional parts of sets
- Adding/subtracting fractions with like denominators

## **Decimals**

- Money as decimals
- Decimal place values – tenths, hundredths
- Adding/subtracting decimals (money)
- Adding/subtracting decimals with regrouping
- Decimal (money) story problems
- Introduction to ordering decimals
- Introduction to comparing decimals

## **Graphing**

- Review tallies and graphing
- Circle graph, line graph
- Interpreting graphs
- Using a grid
- Ordered pairs

## **Problem-Solving**

- Multi-step story problems
- Story problems with mixed operations
- Using models/reenactment
- Estimating
- Reasonableness of an answer