

# Third Grade Pacing Guide

## Math

### **September**

#### **Week 1:**

Topic 1: Numeration

\*See curriculum for specific number of days for each unit.

- Introduction to Topic 1
- Representing Numbers
- Ways to Name Numbers
- Greater Numbers
- Understanding the Number Line
- Counting on the Number Line
- Comparing Numbers
- Ordering Numbers

### **Week 2:**

Topic 1: Numeration

- Problem Solving: Make an Organized List
- Review Topic 1
- Topic 1 Test

Topic 2: Number Sense: Addition and Subtraction

- Introduction to Topic 2
- Addition Meaning and Properties

### **Week 3:**

Topic 2: Number Sense: Addition and Subtraction

- Subtraction Meanings
- Using Mental Math to Add
- Using Mental Math to Subtract
- Rounding
- Estimating Sums

## **October**

### **Week 1:**

Topic 2: Number Sense: Addition and Subtraction

- Estimating Differences
- Making Sense of Addition and Subtraction Equations
- Problem Solving: Reasonableness
- Topic 2 Review

\*See curriculum for specific number of days for each unit.

- Topic 2 Test

**Week 2:**

Topic 3: Using Place Value to Add and Subtract

- Introduction to Topic 3
- Adding with an Expanded Algorithm
- Models for Adding 3-Digit Numbers
- Adding 3-Digit Numbers
- Adding 3 or More Numbers

**Week 3:**

Topic 3: Using Place Value to Add and Subtract

- Problem Solving: Draw a Picture
- Subtracting with an Expanded Algorithm
- Models for Subtracting 3-Digit Numbers
- Subtracting 3-Digit Numbers
- Subtracting Across Zero

**Week 4:**

Topic 3: Using Place Value to Add and Subtract

- Problem Solving: Draw a Picture and Write a Number Sentence
- Topic 3 Review
- Topic 3 Test

Topic 4: Meanings of Multiplication

- Multiplication as Repeated Addition
- Arrays and Multiplication

**Week 5:**

Topic 4: Meanings of Multiplication

- The Commutative Property
- Writing Multiplication Stories
- Problem Solving: Write to Explain
- Topic 4 Review
- Topic 4 Test

**November**

**Week 1:**

Topic 5: Multiplication Facts: Use Patterns

- Introduction to Topic 5

\*See curriculum for specific number of days for each unit.

- 2 and 5 as Factors
- 9 as a Factor
- Multiplying with 0 and 1
- Patterns for Facts

**Week 2:**

No School!

**Weeks 3/4:**

Topic 5: Multiplication Facts: Use Patterns

- 10 as a Factor
- Multiplying by Multiples
- Problem Solving: Two-Question Problems
- Topic 5 Review
- Topic 5 Test

# December

## Week 1:

Topic 6: Multiplication Facts: Use Known Facts

- Introduction to Topic 6
- The Distributive Property
- 3 as a Factor
- 4 as a Factor
- 6 and 7 as Factors

## Week 2:

Topic 6: Multiplication Facts: Use Known Facts

- 8 as a Factor
- Multiplying with 3 Factors
- Multiplication Facts
- Multiplying to Find Combinations
- Problem Solving: Multiple-Step Problems

## Week 3:

Topic 6: Multiplication Facts: Use Known Facts

- Topic 6 Review
- Topic 6 Test

## Week 4:

Winter Vacation!

# January

## **Week 1:**

### Topic 7: Meanings of Division

- Topic 7 Introduction
- Division as Sharing
- Division as Repeated Subtraction
- Finding Missing Numbers in a Multiplication Table
- Problem Solving: Choose an Appropriate Equation

## **Week 2:**

### Topic 7: Meanings of Division

- Writing Division Stories
- Problem Solving: Use Objects and Draw a Picture
- Review Topic 7
- Topic 7 Test

### Topic 8: Division Facts

- Introduction to Topic 8

## **Week 3:**

### Topic 8: Division Facts

- Relating Multiplication and Division
- Fact Families with 2, 3, 4, and 5
- Fact Families with 6 and 7
- Fact Families with 8 and 9

## **Week 4:**

### Topic 8: Division Facts

- Problem Solving: Multiple Step Problems
- Making Sense of Multiplication and Division Equations

\*See curriculum for specific number of days for each unit.

- Dividing with 0 and 1
- Multiplication and Division Facts
- Problem Solving: Draw a Picture and Write a Number Sentence

## February

### Week 1:

Topic 8: Division Facts

- Review Topic 8
- Topic 8 Test

Topic 9: Understanding Fractions

- Topic 9 Introduction
- Dividing Regions Into Equal Parts
- Fractions and Regions

### Week 2:

Topic 9: Understanding Fractions

- Fractions and Sets
- Fractional Parts of a Set
- Locating Fractions on the Number Line
- Benchmark Fractions
- Fractions and Length

### Week 3:

Topic 9: Understanding Fractions

- Problem Solving: Make a Table and Look for a Pattern
- Review Topic 9
- Topic 9 Test

### Week 4:

Topic 10: Fraction Comparison and Equivalence

- Using Models to Compare Fractions: Same Denominator
- Using Models to Compare Fractions: Same Numerator

\*See curriculum for specific number of days for each unit.

- Comparing Fractions Using Benchmarks
- Comparing Fractions on the Number Line
- Finding Equivalent Fractions

## March

### Week 1:

Topic 10: Fraction Comparison and Equivalence

- Equivalent Fractions and the Number Line
- Whole Numbers and Fractions
- Using Fractions
- Problem Solving: Draw a Picture

### Week 2:

Topic 10: Fraction Comparison and Equivalence

- Review Topic 10
- Topic 10 Test

Topic 11: Two Dimensional Shapes and Their Attributes

- Introduction to Topic 11
- Lines and Line Segments
- Angles

### Week 3:

Topic 11: Two Dimensional Shapes and Their Attributes

- Polygons
- Triangles
- Quadrilaterals
- Combining and Separating Shapes
- Making New Shapes

### Week 4:

Topic 11: Two Dimensional Shapes and Their Attributes

\*See curriculum for specific number of days for each unit.



- Problem Solving: Solve a Simpler Problem
- Problem Solving: Make and Test Generalizations
- Review Topic 11
- Topic 11 Test

## April

### Week 1:

Topic 12: Time

- Introduction to Topic 12
- Time to the Half Hour and Quarter Hour
- Time to the Minute
- Units of Time

### Week 2:

Spring Break!

### Week 3:

Topic 12: Time

- Elapsed Time
- Problem Solving: Work Backwards
- Review Topic 12
- Topic 12 Test

### Week 4:

Topic 13: Perimeter

- Understanding Perimeter
- Tools and Units for Perimeter
- Perimeter of Common Shapes
- Different Shapes with the Same Perimeter
- Problem Solving: Try, Check, and Revise

### Week 5:

\*See curriculum for specific number of days for each unit.

### Topic 13: Perimeter

- Review Topic 13
- Topic 13 Test

### Topic 14: Area

- Introduction to Topic 14
- Covering Regions
- Area and Units

## May

### Week 1:

#### Topic 14: Area

- Standard Units
- Area of Squares and Rectangles
- Area and the Distributive Property
- Problem Solving: Solve a Simpler Problem
- Area of Irregular Shapes

### Week 2:

#### Topic 14: Area

- Same Area, Different Perimeter
- Equal Areas and Fractions
- Problem Solving: Selecting Appropriate Measurement Units and Tools
- Review Topic 14
- Topic 14 Test

### Week 3:

#### Topic 15: Liquid Volume and Mass

- Introduction to Topic 15
- Customary Units of Capacity
- Metric Units of Capacity
- Units of Mass
- Units of Weight

\*See curriculum for specific number of days for each unit.

**Week 4:**

Topic 15: Liquid Volume and Mass

- Problem Solving: Draw a Picture
- Review Topic 15
- Topic 15 Test

## June

**Week 1:**

Topic 16: Data

- Topic 16 Introduction
- Line Plots
- Length and Line Plots
- Reading Pictographs and Bar Graphs
- Making Pictographs

**Week 2:**

Topic 16: Data

- Making Bar Graphs
- Problem Solving Using Tables and Graphs to Draw Conclusions
- Review Topic 16
- Topic 16 Test

\*See curriculum for specific number of days for each unit.