

# Bluebonnet Mathematics – Grade 2

## Instructional Plan / Course Syllabus

### Course Description

Second Grade Mathematics using the **Bluebonnet Math Curriculum** develops students' number sense, mathematical reasoning, and problem-solving skills. Students will explore addition, subtraction, place value, measurement, data, geometry, time, and early multiplication concepts through hands-on activities and real-world applications. Instruction aligns with the **Texas Essential Knowledge and Skills (TEKS) for Grade 2 Mathematics** and encourages students to explain their thinking using mathematical models and strategies.

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## Curriculum Units and Instructional Overview

### Unit 1: Sums and Differences to 100

**Focus:** Students develop strategies to add and subtract within 100 using place value understanding and visual models.

**TEKS:** 2.4A, 2.4B, 2.4C, 2.5A, 2.5B

#### Learning Objectives

- Solve addition and subtraction problems within 100.
- Use place value models and drawings to represent problems.
- Explain problem-solving strategies.

#### Instructional Activities

- Number bonds and place value modeling
- Base-ten block exploration
- Partner problem-solving tasks
- Math discussions explaining strategies

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## Unit 2: Addition and Subtraction of Length Units

**Focus:** Students measure objects and solve problems involving length using standard units.

**TEKS:** 2.7A, 2.7B, 2.4C

### Learning Objectives

- Measure objects using standard units.
- Compare lengths of objects.
- Solve addition and subtraction problems involving measurement.

### Instructional Activities

- Measuring classroom objects with rulers
  - Estimating and checking measurements
  - Measurement comparison activities
  - Word problems involving length
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## Unit 3: Place Value, Counting, and Comparison to 1,200

**Focus:** Students build understanding of hundreds, tens, and ones while counting and comparing numbers to 1,200.

**TEKS:** 2.2A, 2.2B, 2.2C, 2.2D

### Learning Objectives

- Read and write numbers to 1,200.
- Represent numbers using place value models.
- Compare numbers using greater than, less than, and equal to.

### Instructional Activities

- Building numbers with base-ten blocks
  - Place value charts and number lines
  - Number comparison games
  - Small group place value practice
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## Unit 4: Addition and Subtraction Within 200

**Focus:** Students apply place value strategies to add and subtract numbers within 200.

**TEKS:** 2.4A, 2.4B, 2.4C, 2.5A

### Learning Objectives

- Add and subtract numbers within 200.
- Represent problems using drawings and equations.
- Explain reasoning for solutions.

### Instructional Activities

- Strip diagrams and number bonds
  - Partner problem solving
  - Math journals explaining strategies
  - Teacher-led small group instruction
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## Unit 5: Addition and Subtraction Within 1,000

**Focus:** Students extend addition and subtraction strategies to three-digit numbers.

**TEKS:** 2.4A, 2.4B, 2.4C, 2.5B

### Learning Objectives

- Add and subtract numbers within 1,000.
- Use place value understanding to solve problems.
- Solve multi-step word problems.

### Instructional Activities

- Base-ten block modeling
  - Problem-solving stations
  - Real-world word problems
  - Collaborative math discussions
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## Unit 6: Foundations of Multiplication, Division, and Area

**Focus:** Students explore equal groups, arrays, and area as foundations for multiplication.

**TEKS:** 2.6A, 2.6B, 2.6C

### **Learning Objectives**

- Identify equal groups in real-world situations.
- Represent repeated addition using arrays.
- Understand area as covering a surface with equal units.

### **Instructional Activities**

- Building arrays with counters
  - Drawing equal groups
  - Area exploration with square tiles
  - Small group problem solving
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## **Unit 7: Problem Solving with Length, Money, and Data**

**Focus:** Students solve real-world problems involving measurement, money, and data representation.

**TEKS:** 2.8A, 2.8B, 2.8C, 2.9A

### **Learning Objectives**

- Count and compare coins and money amounts.
- Collect and represent data using graphs.
- Solve problems involving measurement and money.

### **Instructional Activities**

- Classroom store simulation
  - Graphing class survey data
  - Measurement comparison tasks
  - Problem-solving discussions
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## **Unit 8: Time, Shapes, and Fractions**

**Focus:** Students explore telling time, identifying shapes, and recognizing fractions as equal parts.

**TEKS:** 2.9B, 2.9C, 2.12A, 2.12B

## **Learning Objectives**

- Tell and write time using analog and digital clocks.
- Identify and classify two-dimensional and three-dimensional shapes.
- Recognize fractions as equal parts of a whole.

## **Instructional Activities**

- Clock practice with manipulatives
  - Shape sorting and classification
  - Fraction models using paper folding
  - Geometry scavenger hunts
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# **Assessment Methods**

Student progress will be evaluated through:

- Bluebonnet unit assessments
  - Daily exit tickets
  - Math journals
  - Teacher observation
  - Performance tasks and problem-solving activities
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# **Instructional Materials**

- Bluebonnet Math Teacher Guides
- Student workbooks and problem sets
- Base-ten blocks and place value charts
- Pattern blocks and geometry manipulatives
- Rulers, clocks, and money manipulatives
- Anchor charts and math journals