



Bronx-Manhattan Seventh-Day Adventist School

1440 Plimpton Avenue – Bronx, NY 10452

Telephone: (718)588-7598 Fax: (718)588-1052

Web: www.bmsdaschool.org

Mrs. Sanchez - 1st & 2nd Grade

MATHEMATICS LONG RANGE LESSON PLANS

GRADES 1st & 2nd

2026-2027

**Our curriculum is based on North American
Division Standards &
New York State Standards**

Mrs. Sanchez



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1st Grade Math - Long Range Plan

Resources: Go Math

September

Chapter 1: Addition Concepts

- **Domain:** Operations and Algebraic Thinking

New York State Standards

- **1.OA.1:** Use addition and subtraction within 20 to solve word problems.
- **1.OA.3:** Apply properties of operations as strategies to add and subtract.

NAD Spiritual Standard

- **1-1-2:** Recognize that God is orderly, and mathematics reflects His creation.

Skills

- Understanding addition as putting together and adding to.
- Representing and solving addition problems.

Topics

- Counting on.
- Understanding addition symbols.
- Writing addition sentences.

Activities

- **Counting Objects:** Use manipulatives to model addition.
- **Number Line Hops:** Demonstrate addition by moving forward on a number line.
- **Addition Stories:** Create simple stories to illustrate addition concepts.

Assessments

- **Worksheets:** Addition problems within 10.
- **Oral Quizzes:** Solve verbal addition problems.



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- **Chapter Test:** Written assessment on addition concepts.

October

Chapter 2: Subtraction Concepts

- **Domain:** Operations and Algebraic Thinking

New York State Standards

- **1.OA.1:** Use addition and subtraction within 20 to solve word problems.
- **1.OA.4:** Understand subtraction as an unknown-addend problem.

NAD Spiritual Standard

- **2-1-3:** Understand that problem-solving skills can help us serve others as Jesus did.

Skills

- Understanding subtraction as taking apart and taking from.
- Representing subtraction problems.

Topics

- Subtraction using objects.
- Subtraction within 10.
- Writing subtraction sentences.

Activities

- **Subtraction Stories:** Create stories illustrating subtraction.
- **Interactive Subtraction Games:** Practice subtraction using digital platforms.
- **Math Centers:** Rotate through stations solving subtraction problems.

Assessments

- **Subtraction Worksheets:** Practice subtraction within 10.
- **Oral Quizzes:** Verbal subtraction problems.
- **Chapter Test:** Assessment on subtraction concepts.

Chapter 3: Addition Strategies



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- **Domain:** Operations and Algebraic Thinking

New York State Standards

- **1.OA.6:** Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.

NAD Spiritual Standard

- **2-1-3:** Understand that developing strategies helps us solve problems, reflecting God's guidance in our lives.

Skills

- Adding fluently within 10.
- Using strategies such as making ten, doubles, and near doubles.

Topics

- Addition strategies: doubles, near doubles, making ten.
- Visual representations of addition.

Activities

- **Strategy Games:** Play games focusing on doubles and making ten.
- **Flashcard Drills:** Timed drills for addition strategies.
- **Group Practice:** Work in pairs to solve strategy-based problems.

Assessments

- **Strategy Quizzes:** Test students on different addition strategies.
- **Timed Drills:** Timed assessments on addition within 10.
- **Chapter Test:** Test covering various addition strategies.

November

Chapter 4: Subtraction Strategies

- **Domain:** Operations and Algebraic Thinking

New York State Standards



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- **1.OA.6:** Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.

NAD Spiritual Standard

- **2-1-4:** Emphasize God's help in solving challenges through persistence and strategy.

Skills

- Developing fluency in subtraction within 10.
- Using strategies such as counting back and using addition to subtract.

Topics

- Subtraction strategies: counting back, fact families.
- Using addition to solve subtraction problems.

Activities

- **Counting Back Games:** Practice subtraction by counting back using number lines.
- **Subtraction Flashcards:** Timed subtraction drills.
- **Partner Practice:** Solve subtraction strategy problems in pairs.

Assessments

- **Timed Subtraction Drills:** Practice subtraction within 10.
- **Subtraction Strategy Quiz:** Evaluate use of different strategies.
- **Chapter Test:** Test covering subtraction strategies.

Chapter 5: Addition and Subtraction Relationships

- **Domain:** Operations and Algebraic Thinking

New York State Standards

- **1.OA.3:** Apply properties of operations as strategies to add and subtract.
- **1.OA.7:** Understand the meaning of the equal sign and determine if equations are true or false.



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NAD Spiritual Standard

- **1-2-1:** Recognize patterns and relationships in God's creation, including mathematics.

Skills

- Understanding the relationship between addition and subtraction.
- Solving related addition and subtraction problems.

Topics

- Fact families.
- True and false equations.
- Using the equal sign correctly.

Activities

- **Fact Family Activities:** Build fact families using manipulatives.
- **Equation True/False Games:** Use balance scales to explore the equal sign.
- **Math Journals:** Write about how addition and subtraction are related.

Assessments

- **Fact Family Quizzes:** Test students on addition-subtraction relationships.
- **Equation Quizzes:** Determine if equations are true or false.
- **Chapter Test:** Test on addition and subtraction relationships.

December

Chapter 6: Count and Model Numbers

- **Domain:** Number and Operations in Base Ten

New York State Standards

- **1.NBT.1:** Count to 120, starting at any number less than 120.
- **1.NBT.2:** Understand that the two digits of a two-digit number represent tens and ones.



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NAD Spiritual Standard

- **2-2-2:** Recognize order and precision in God's creation through numbers.

Skills

- Counting within 120.
- Modeling two-digit numbers using tens and ones.

Topics

- Place value concepts: tens and ones.
- Counting forward and backward.

Activities

- **Place Value Games:** Use manipulatives to represent numbers with tens and ones.
- **Counting Chains:** Create paper chains to visualize counting sequences.
- **Math Centers:** Stations for counting, building, and comparing numbers.

Assessments

- **Counting Quizzes:** Test counting sequences up to 120.
- **Place Value Worksheets:** Practice building and breaking apart two-digit numbers.
- **Chapter Test:** Assess understanding of place value and counting.

January

Chapter 7: Compare Numbers

- **Domain:** Number and Operations in Base Ten

New York State Standards

- **1.NBT.3:** Compare two two-digit numbers based on meanings of the tens and ones digits.



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NAD Spiritual Standard

- **3-1-1:** Use reasoning to make wise choices, reflecting God's wisdom in decision-making.

Skills

- Comparing two-digit numbers using $>$, $=$, and $<$ symbols.

Topics

- Comparing numbers using place value.
- Using comparison symbols ($>$, $<$, $=$).

Activities

- **Number Line Comparisons:** Use number lines to compare values.
- **Comparison Games:** Use cards or manipulatives to practice comparing numbers.
- **Math Journals:** Write about comparing numbers using place value.

Assessments

- **Comparison Quizzes:** Test students on comparing numbers using symbols.
- **Worksheets:** Solve comparison problems.
- **Chapter Test:** Test covering number comparison.

Chapter 8: Two-Digit Addition and Subtraction

- **Domains:** Operations and Algebraic Thinking; Number and Operations in Base Ten

New York State Standards

- **1.NBT.4:** Add within 100, including adding a two-digit number and a one-digit number.

NAD Spiritual Standard

- **2-2-3:** Recognize how God's wisdom helps us solve problems, including math challenges.

Skills

- Adding and subtracting two-digit numbers without regrouping.



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Topics

- Two-digit addition and subtraction strategies.
- Solving two-digit problems without regrouping.

Activities

- **Addition/Subtraction Games:** Practice adding and subtracting two-digit numbers.
- **Partner Practice:** Solve problems in pairs, explaining strategies used.
- **Interactive Whiteboard Activities:** Visualize two-digit addition and subtraction.

Assessments

- **Computation Quizzes:** Practice two-digit addition and subtraction problems.
- **Worksheets:** Solve two-digit addition and subtraction problems.
- **Chapter Test:** Test covering two-digit addition and subtraction.

February

Chapter 9: Measurement

- **Domain:** Measurement and Data

New York State Standards

- **1.MD.1:** Order three objects by length; compare the lengths of two objects indirectly.
- **1.MD.2:** Express the length of an object as a whole number of length units.

NAD Spiritual Standard

- **2-3-4:** Appreciate God's creation by observing and measuring the world around us.

Skills

- Measuring lengths using non-standard units.
- Comparing lengths of different objects.
- Ordering objects by length.



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Topics

- Understanding measurement concepts.
- Using non-standard units to measure (e.g., paper clips, blocks).
- Indirect comparison of lengths.

Activities

- **Measurement Scavenger Hunt:** Measure objects around the classroom using non-standard units.
- **Non-Standard Measurement Games:** Use items like paper clips or cubes to measure objects.
- **Comparison Activities:** Arrange objects by length and discuss comparisons.
- **Indirect Measurement:** Use a third object to compare lengths of two other objects.

Assessments

- **Practical Measurement Tasks:** Demonstrate measuring skills using non-standard units.
- **Worksheets:** Complete measurement problems involving ordering and comparing lengths.
- **Chapter Test:** Assess understanding of measurement concepts and skills.

March

Chapter 10: Represent Data

Domain: Measurement and Data

New York State Standards

- **1.MD.4:** Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points.

NAD Spiritual Standard

- **3-2-2:** Recognize the variety and order in God's creation through patterns and data.

Skills

- Collecting and organizing data.



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- Representing data using charts and graphs.
- Interpreting data to answer questions.

Topics

- Bar graphs.
- Picture graphs.
- Tally charts.
- Data interpretation.

Activities

- **Class Surveys:** Collect data on favorite fruits, pets, or activities.
- **Graph Creation:** Create bar graphs and picture graphs based on collected data.
- **Data Interpretation Exercises:** Answer questions based on graphs.
- **Interactive Activities:** Use software to create and interpret graphs.

Assessments

- **Data Worksheets:** Organize and represent given data sets.
- **Graph Interpretation Quizzes:** Answer questions about information presented in graphs.
- **Chapter Test:** Assess ability to collect, represent, and interpret data.

April

Chapter 11: Three-Dimensional Geometry

- **Domain:** Geometry

New York State Standards

- **1.G.1:** Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes; build and draw shapes to possess defining attributes.
- **1.G.2:** Compose two-dimensional shapes or three-dimensional shapes to create a composite shape.



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NAD Spiritual Standard

- **1-2-3:** Recognize God's design in the world through shapes and structures.

Skills

- Identifying and describing three-dimensional shapes.
- Recognizing attributes of 3D shapes.
- Composing new shapes from existing ones.

Topics

- Characteristics of 3D shapes: sphere, cube, cylinder, cone, pyramid.
- Comparing 2D and 3D shapes.
- Building and modeling shapes.

Activities

- **Shape Exploration:** Use physical models to explore and identify 3D shapes.
- **Building Shapes:** Construct 3D shapes using clay, blocks, or other materials.
- **Shape Hunt:** Find examples of 3D shapes in the classroom or school.
- **Drawing Shapes:** Practice sketching 3D shapes.

Assessments

- **Shape Identification Quizzes:** Name and describe attributes of 3D shapes.
- **Model Creation Projects:** Build models of 3D shapes.
- **Chapter Test:** Assess understanding of three-dimensional geometry concepts.

May

Chapter 12: Two-Dimensional Geometry

- **Domain:** Geometry

New York State Standards

- **1.G.1:** Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.



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- **1.G.2:** Compose two-dimensional shapes to create a composite shape; compose new shapes from composite shapes.

NAD Spiritual Standard

- **1-2-3:** Understand that patterns and shapes reflect God's design in the world.

Skills

- Identifying and describing two-dimensional shapes.
- Recognizing attributes of 2D shapes.
- Composing and decomposing shapes.

Topics

- Characteristics of 2D shapes: squares, rectangles, circles, triangles, hexagons.
- Creating composite shapes.
- Symmetry and patterns.

Activities

- **Shape Art:** Create pictures using various 2D shapes.
- **Tangram Puzzles:** Use tangram pieces to make different shapes and figures.
- **Pattern Blocks:** Explore composing and decomposing shapes with pattern blocks.
- **Symmetry Activities:** Fold paper to find lines of symmetry.

Assessments

- **Shape Identification Quizzes:** Identify and describe attributes of 2D shapes.
- **Composition Tasks:** Build new shapes from given shapes.
- **Chapter Test:** Evaluate understanding of two-dimensional geometry concepts.

June

Comprehensive Review Month

Focus

- Reinforce key skills and concepts learned throughout the year.
- Prepare students for the next grade level.



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Activities

- **Interactive Math Games:** Use educational games to review all math concepts.
- **Reflection Sessions:** Discuss favorite topics and what students have learned.
- **Preview of Next Grade:** Briefly introduce concepts that will be covered in second grade.

Assessments

- **Informal Assessments:** Monitor understanding through participation and activities.
- **Feedback Sessions:** Provide individualized feedback on overall performance.
- **Celebration of Learning:** Acknowledge achievements and growth over the year.

2nd Grade Math - Long-Range Plan

Resource: Go Math

September

Chapter 1: Number Concepts

- **Domain:** Operations and Algebraic Thinking

NY State Standards

- **2.OA.1:** Use addition and subtraction within 100 to solve one- and two-step word problems.
- **2.OA.2:** Add and subtract within 20.

NAD Spiritual Standard

- **1-1-2:** Recognize that God is a God of order and that numbers reflect His creation.

Skills

- Understanding and recognizing numbers.
- Comparing numbers using greater than, less than, and equal to.



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Topics

- Place value.
- Number line.
- Comparing numbers.

Activities

- **Number Line Games:** Engage in games using the number line.
- **Place Value Charts:** Use charts to understand place value.
- **Group Activities:** Compare numbers in group settings.

Assessments

- **Chapter Test:** Includes word problems and number comparisons.

October

Chapter 2: Numbers to 1,000

- **Domain:** Number and Operations in Base Ten

NY State Standards

- **2.NBT.1:** Understand place value.
- **2.NBT.2:** Count within 1000; skip count by 5s, 10s, and 100s.

NAD Spiritual Standard

- **2-1-2:** Understand that we can use numbers to praise and glorify God.

Skills

- Recognizing and writing numbers to 1,000.
- Understanding place value in three-digit numbers.

Topics

- Hundreds, tens, and units.

Activities

- **Number Scavenger Hunt:** Find and write numbers up to 1,000.
- **Place Value Games:** Interactive games focusing on place value.



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- **Group Counting Exercises:** Practice skip counting in groups.

Assessments

- **Quiz:** Assess understanding of place value and writing numbers to 1,000.

November

Chapter 3: Basic Facts and Relationships

- **Domain:** Operations and Algebraic Thinking

NY State Standards

- **2.OA.3:** Determine whether a group of objects has an odd or even number of members.

NAD Spiritual Standard

- **1-1-4:** Recognize the importance of working together in community as seen in the Bible.

Skills

- Mastery of addition and subtraction facts.
- Understanding relationships between numbers.

Topics

- Odd and even numbers.
- Fact families.

Activities

- **Flashcard Games:** Practice basic facts with flashcards.
- **Fact Family Triangles:** Use triangles to represent fact families.
- **Group Challenges:** Team activities focusing on number relationships.

Assessments

- **Basic Facts Assessment:** Test addition and subtraction facts.
- **Fact Family Quiz:** Assess understanding of fact families.



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December

Chapter 4: 2-Digit Addition

- **Domain:** Operations and Algebraic Thinking

NY State Standards

- **2.NBT.5:** Fluently add and subtract within 100.

NAD Spiritual Standard

- **3-1-1:** God equips us with skills and talents to help others.

Skills

- Adding two-digit numbers with and without regrouping.

Topics

- Regrouping.
- Addition strategies.

Activities

- **Addition Bingo:** Game to practice two-digit addition.
- **Regrouping Games:** Activities that focus on the concept of regrouping.
- **Partner Activities:** Work in pairs to solve addition problems.

Assessments

- **Chapter Test:** Assess understanding of 2-digit addition.

January

Chapter 5: 2-Digit Subtraction

- **Domain:** Operations and Algebraic Thinking

NY State Standards

- **2.NBT.5:** Fluently add and subtract within 100.



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NAD Spiritual Standard

- **2-3-4:** Acknowledge our need for Christ in our lives.

Skills

- Subtracting two-digit numbers with and without regrouping.

Topics

- Subtraction strategies.
- Checking work.

Activities

- **Subtraction Relay Races:** Team games to practice subtraction.
- **Using Manipulatives:** Hands-on tools to visualize subtraction.
- **Partner Practice:** Solve subtraction problems with a partner.

Assessments

- **Quiz:** Assess understanding of 2-digit subtraction.

February

Chapter 6: 3-Digit Addition and Subtraction

- **Domain:** Number and Operations in Base Ten

NY State Standards

- **2.NBT.6:** Add up to four two-digit numbers.

NAD Spiritual Standard

- **3-1-3:** Emphasize the importance of teamwork in solving problems.

Skills

- Adding and subtracting three-digit numbers.



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Topics

- Regrouping in addition and subtraction.

Activities

- **Group Challenges:** Collaborative problem-solving with three-digit numbers.
- **Games:** Engage with games that involve 3-digit operations.

Assessments

- **Chapter Test:** Assess understanding of 3-digit addition and subtraction.

March

Chapter 7: Money and Time

- **Domain:** Measurement and Data

NY State Standards

- **2.MD.8:** Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.

NAD Spiritual Standard

- **2-4-2:** Teach stewardship and the importance of managing God's resources.

Skills

- Counting money.
- Telling time to the nearest five minutes.

Topics

- Coin recognition.
- Making change.

Activities

- **Store Simulation:** Practice money skills in a mock store setup.
- **Time-Telling Games:** Activities to practice reading clocks.



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Assessments

- **Quiz:** Assess knowledge of money and time concepts.

Chapter 8: Length in Customary Units

- **Domain:** Measurement and Data

NY State Standards

- **2.MD.1:** Measure the length of an object using appropriate tools.

NAD Spiritual Standard

- **3-4-1:** Appreciate the beauty of God's creation through measurement.

Skills

- Measuring length using inches and feet.

Topics

- Customary units of measurement.

Activities

- **Measuring Classroom Objects:** Use rulers to measure items in the classroom.
- **Length Scavenger Hunt:** Find objects of specific lengths.

Assessments

- **Measurement Project:** Practical assessment measuring various objects.
- **Quiz:** Assess understanding of customary units.

April

Chapter 9: Length in Metric Units

- **Domain:** Measurement and Data

NY State Standards



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- **2.MD.2:** Measure the length of an object using centimeters and meters.

NAD Spiritual Standard

- **2-4-1:** Recognize the importance of accurate measurements in daily life.

Skills

- Measuring length using centimeters and meters.

Topics

- Metric units of measurement.

Activities

- **Metric Measurement Activities:** Practice measuring using metric units.
- **Comparing Units:** Compare metric and customary measurements.

Assessments

- **Chapter Test:** Assess understanding of metric measurements.

May

Chapter 10: Data

- **Domain:** Measurement and Data

NY State Standards

- **2.MD.10:** Organize, represent, and interpret data.

NAD Spiritual Standard

- **3-3-2:** Use data to inform decision-making, reflecting God's desire for wisdom.

Skills

- Collecting and interpreting data.
- Creating graphs.



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Topics

- Bar graphs.
- Picture graphs.

Activities

- **Class Survey and Data Collection:** Gather data on various topics.
- **Graphing Favorite Activities:** Create graphs based on survey results.

Assessments

- **Data Project Presentation:** Present data findings.
- **Assessment:** Evaluate understanding of data concepts.

Chapter 11: Geometry and Fraction Concepts

- **Domain:** Geometry

NY State Standards

- **2.G.1:** Recognize and draw shapes having specified attributes.

NAD Spiritual Standard

- **3-2-2:** Recognize God's creation in various shapes and forms.

Skills

- Identifying and classifying shapes.
- Understanding basic fractions.

Topics

- Shapes.
- Parts of a whole.

Activities

- **Shape Scavenger Hunt:** Find and identify shapes.
- **Fraction Activities:** Use manipulatives to explore fractions.



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Assessments

- **Geometry and Fractions Quiz:** Test understanding of shapes and fractions.

June

Comprehensive Review Month

Topics

- Number concepts (Chapters 1-6)
- Measurement and data (Chapters 7-10)
- Geometry and fractions (Chapter 11)

Key Skills

- Addition and subtraction within 1,000
- Place value understanding
- Time, money, and measurement
- Shape recognition and basic fractions

Activities

- **Math Jeopardy:** Review questions from all chapters.
- **Targeted Review Centers:** Focus on specific skills (addition, measurement, etc.).
- **Timed Fact Challenges:** Quick addition and subtraction practice.
- **Graphing Activity:** Create and analyze data as a class.
- **Geometry Art:** Shape-based creative project.

Assessments

- **Cumulative Test:** Covers all major topics.
- **Group Problem-Solving Project:** Collaborative challenges.
- **One-on-One Conferences:** Discuss progress and areas for growth.