

Trimester 1

Unit 1 - Numbers, Operations, & Problem Solving up to 20

Students will be able to:

1. Understand that the two digits of a two-digit number represent amounts of tens and ones.
2. Compare two two-digit numbers, within 20, based on the meanings of the tens and ones digits, using $>$, $<$, and $=$ symbols to record the results of the comparison.
3. Skip count by 2s and 5s to 20.
4. Read and write numbers to 20 using base-ten numerals (standard form) and number names (word form).
5. Use place value and properties of operations to add and subtract within 20.
6. Use problem solving strategies to solve word problems within 20
7. Add and subtract fluently through 20

Timeframe	Resources
Approximately 20 days	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> • Engage New York Second Grade Module 1 • MiF Fact Fluency "Achieving Fact Fluency" • First Grade MiF Chapter 8 Enrichment and EP Activities • Greg Tang EXPRESSO • Greg Tang Mental Math <p><u>Materials/Manipulatives</u> - (use to compose and decompose numbers)</p> <ul style="list-style-type: none"> • Snap Cubes • Base 10 Blocks • 10 Frames • 2-Color Counters <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> • Greg Tang Games: <ul style="list-style-type: none"> ○ Math Limbo ○ NumTanga ○ How Many • Greg Tang Mental Math
Assessment Window	
Approximately Day 20	

Unit 2 - Numbers and Operations and Problem Solving to 100

Students will be able to:

1. Use place value strategies for problems through 100
2. Add and subtract through 100
 - Part Part Total
 - Number Bonds
 - Bar Models
3. Use problem-solving strategies to solve problems through 100
 - Greg Tang 6 Step Problem Types (From CCSS page 88)
 - Focus on:
4. Add to Start Unknown
5. Take from Start Unknown
6. Compare with more Smaller Unknown
7. Compare with Fewer Bigger Unknown
8. Review:
 - Add to with Unknown Result & Change
 - Take From with Result & Change Unknown
 - Put Together/Take Apart with Total Unknown & Addend Unknown
 - Compare with More & Fewer with Difference Unknown
 - Compare with More with Bigger Unknown
 - Compare with Fewer with Smaller Unknown

Timeframe	Resources	
Approximately 40 days	<p><u>Digital/Print Resources:</u></p> <ul style="list-style-type: none"> ● Engage New York Second Grade Module 1 ● Engage New York Second Grade Module 3 ● MiF Chapter 10 <ul style="list-style-type: none"> ○ Do not use lesson 5 ○ Use only problems to 100 ● Greg Tang EXPRESSO ● Greg Tang Mental Math 	<p><u>Materials:</u></p> <ul style="list-style-type: none"> ● Snap Cubes ● Base 10 Blocks ● 10 Frames ● 2-Color Counters ● Place Value Discs <p><u>Technology Resources:</u></p> <ul style="list-style-type: none"> ● Greg Tang Games ● Math Playground ● IXL
Assessment Window		
Approximately Day 60		

Trimester 2

Unit 3 - Foundations for Multiplication and Division

Students will be able to:

1. Determine whether a group of objects, within 20, is even or odd by pairing objects or counting them by 2s.
2. Use concrete objects to create equal groups (3 groups of 5 or 5 groups of 3).
3. Use addition to find the total number of objects arranged in rectangular arrays with up to five rows and five columns.
4. Express the organization of equal groups and arrays as repeated addition; write an equation to express the total as a sum of equal addends.

Timeframe	Resources
Approximately 15 Days	<p><u>Digital/Print Resources:</u></p> <ul style="list-style-type: none"> • Engage New York Second Grade Module 6 <p><u>Materials:</u></p> <ul style="list-style-type: none"> • Concrete manipulatives i.e. counters <p><u>Technology Resources:</u></p> <ul style="list-style-type: none"> • Math Playground • IXL
Assessment Window	
Approximately Day 75	

Unit 4 - Standard Units of Measurement

Students will be able to:

1. Measure lengths of objects using appropriate tools.
 - Rulers (centimeters and inches)
 - Meter stick
 - Yardstick
 - Tape measure
2. Measure the same length using different sized units and note the measurement made with the smaller unit is more than the measurement made with the larger unit and vice versa.
3. Estimate lengths using units of inches, feet, centimeters, and meters.
4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.
5. Determine appropriate tools to measure objects.
6. Use addition and subtraction concepts to solve problems involving length.

Timeframe	Resources
Approximately 15 days	<p>Digital and Print Resources</p> <ul style="list-style-type: none"> ● Engage NY Module 2 ● Engage NY Module 7 Topic C-F ● MiF Ch. 7-Metric Units of Measurement ● MiF Ch. 13- Customary Units of Measurement ● Number Rock Song: Inches, Feet and Yards ● Georgia State Standards Unit 3 Measurement Activities <p>Materials</p> <ul style="list-style-type: none"> ● Centimeter and Inch Rulers ● Meter Sticks ● Measuring Tape ● Yard Stick <p>Technology Resources</p> <ul style="list-style-type: none"> ● iXL: Skills S.2-S.10
Assessment Window	
Approximately Day 90	

Unit 5 - Numbers, Operations, and Problem Solving up to 1,000

Students will be able to:

1. Understand that the three digits of a three-digit number represent amounts of hundreds, tens and ones.
2. Compare two three-digit numbers based on the meanings of the hundreds, tens and ones digits, using $>$, $<$, and $=$ symbols to record the results of the comparison.
3. Count within 1,000.
4. Skip count by 5s, 10s, and 100s to 1000.
5. Read and write numbers to 1000 using base-ten numerals (standard form), number names (word form), and expanded form.
6. Use place value and properties of operations to add and subtract within 1000.

Timeframe	Resources
Approximately 28 days	<p>Digital/Print Resources:</p> <ul style="list-style-type: none"> ● Engage New York Second Grade Module 1 ● Engage New York Second Grade Module 3 ● MiF Chapters 1, 2, 3, *Do not use problem solving lessons ● Greg Tang EXPRESSO ● Greg Tang Mental Math <p>Materials: (use to compose and decompose numbers)</p> <ul style="list-style-type: none"> ● Base 10 blocks ● Place value discs <p>Technology Resources:</p> <ul style="list-style-type: none"> ● Greg Tang Games: <ul style="list-style-type: none"> ○ Math Limbo ○ NumTanga ○ How Many ○ Ten Frame Mania ○ Kakooma ● Math Playground ● IXL
Assessment Window	
Approximately Day 118	

Trimester 3

Unit 6 - Fractions and Geometry

Students will be able to:

1. Identify and draw two-dimensional shapes.
 - Shapes - triangles, quadrilaterals, pentagons, hexagons, octagons.
 - Regular and Irregular shapes.
2. Identify the number of sides and vertices of two-dimensional shapes.
3. Describe, classify, and sort two-dimensional shapes.
 - Attributes - number of sides, number of vertices
4. Identify three-dimensional shapes.
 - Shapes - cubes, rectangular prisms, cone, cylinder, sphere, pyramid
5. Identify the number of faces, edges, and vertices of a three-dimensional shape.
6. Describe, classify, and sort three-dimensional shapes.
 - Attributes - number & shape of faces, number of edges, number of vertices
7. Partition circles, squares, and rectangles into two, three, or four equal shares and describe the equal parts as halves, thirds, or fourths.
 - Recognize that equal shares of identical wholes need not have the same shape.
8. Determine whether parts of a whole are equal or unequal.
9. Represent a given fraction using drawings or models.

Timeframe	Resources
Approximately 12 days	<p><u>Digital/Print Resources:</u></p> <ul style="list-style-type: none"> ● MiF Chapter 12: Lessons 1 and 2 ● MiF Chapters 18-19 ● Engage New York Grade 2 Module 8 <p><u>Materials:</u></p> <ul style="list-style-type: none"> ● Ruler (straight edge) ● Colored pencils/crayons ● 3 dimensional solid shapes ● Pattern Blocks <p><u>Technology Resources:</u></p> <ul style="list-style-type: none"> ● IXL
Assessment Window	
Approximately Day 130	

Unit 7 - Time and Money

Students will be able to:

1. Tell and write time using a digital and analog clock to the nearest 5 minutes, using A.M. and P.M.
2. Write amounts of money using \$ and ¢ appropriately.
3. Learn the relationship between the values of a penny, nickel, dime, quarter, and dollar bill.
4. Count a collection of money, including coins and bills.
5. Make change using coins and bills.
6. Solve one- and two-step word problems involving money (ex., adding to, taking from, putting together, taking apart, comparing).

Timeframe	Resources
Approximately 25 days	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● Engage New York Second Grade Module 8 Topic D ● Engage New York Second Grade Module 7 Topic B ● Math in Focus Chapter 14 (Time) ● Math in Focus Chapter 11 (Money) ● Georgia Standards Math Unit 3 Time Tasks (page 68-98) ● Georgia Standards Math Unit 4 Money Tasks (pages 59-75) ● Greg Tang Math Resources- Funny Numbers Money and Time <p><u>Materials/Manipulatives</u></p> <ul style="list-style-type: none"> ● Clocks ● Coins <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● Math Playground ● IXL ● Greg Tang Coin Bubble Game ● Math Playground Money video ● Math Playground Time Video
Assessment Window	
Approximately Day 155	

Unit 8 - Data

Students will be able to:

1. Create and analyze line plots to show measurement data of the lengths of several objects to the nearest whole-number unit.
2. Create and analyze picture graphs using single unit scale and up to 4 categories.
3. Create and analyze bar graphs using a single unit scale and up to 4 categories.
4. Solve simple put-together, take-apart, and compare word problems using information presented in a bar graph.
5. Describe features of data such as range, mode, and median.

Timeframe	Resources
Approximately 15 days	<p><u>Digital/Print Resources:</u></p> <ul style="list-style-type: none"> ● MiF: Chapter 17 Picture Graph ● Engage New York Second Grade Module 7 <p><u>Technology Resources:</u></p> <ul style="list-style-type: none"> ● Math Playground - Bar Graph and Picture Graph Videos ● IXL
Assessment Window	
Approximately Day 170	