

Unit 1 - Number Sense

Students will be able to:

- Count 0 to 10.
- Read and write 0 to 10 in number form.
- Compose and decompose numbers 0 to 10.
- Compare numbers to 10 (more and less).
- Represent numbers, 0-10, concretely, pictorially, and abstractly.

Timeframe	Resources
No less than 4 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF - Chapter 1 - Numbers to 10 ● MiF - Chapter 2 - Number Bonds <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● Greg Tang Math ● Splat! ● Friends of Ten Youtube Video ● 10 Frame Flash Video YouTube ● The Numeral Song Youtube Video ● National Library of Virtual Manipulatives ● What Makes 10 Video YouTube ● Subitize to 5 YouTube Video ● Subitize to 10 YouTube Video ● Literature Connection books - Stuart J. Murphy MathStart books <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● 10 Frames ● Counters ● Unifix Cubes
Assessment Window	
Mid-September	
Trimester	
Trimester 1	

Unit 2 – Place Value and Addition and Subtraction within 10

Students will be able to:

- Represent addition and subtraction within 10 concretely and pictorially.
- Use various strategies to solve word problems within 10.
- Given three numbers, students will find all the related addition and subtraction facts.
- Given a number bond, students will find all the related addition and subtraction facts.

Timeframe	Resources
No less than 4 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF - Chapter 3 - Addition Facts to 10 ● MiF - Chapter 4 - Subtraction Facts to 10 <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● Greg Tang Math <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● 10 Frames ● Unifix Cubes ● 2-Colored Counters <p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● Literature Connection Books – Stuart J. Murphy MathStart books
Assessment Window	
Mid-October	
Trimester	
Trimester 1	

Unit 3 – Place Value and Addition & Subtraction within 20

Students will be able to:

- Read and write numbers to 20.
- Represent numbers 0–20 concretely, pictorially and abstractly.
- Represent addition and subtraction within 20 concretely and pictorially.
- Use various strategies to solve word problems within 20.
- Compare two 2-digit numbers within 20.
- Given three numbers, students will find all the related addition and subtraction facts.
- Given a number bond, students will find all related addition and subtraction facts.

Timeframe	Resources
No less than 3 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF – Chapter 7 – Numbers to 20 ● MiF – Chapter 8 – Addition and Subtraction Facts to 20 <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● 3-Act Tasks ● Greg Tang Math <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● Magnetic Base 10 Blocks ● 10 Frames ● Double 10 Frames ● Place Value Charts ● Unifix Cubes ● 2-Color Counters <p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● <u>Fact Family Task Cards</u> ● Literature Connection books – Stuart J. Murphy MathStart books
Assessment Window	
Early November	
Trimester	
Trimester 1	

Unit 4 - Measurement & Time

Students will be able to:

- Order three objects by length; compare the lengths of two objects indirectly by using a third object
- Use standard and non-standard units of measure to express the length of an object as a whole number of length units
- Understand that the length measurement of an object is the number of same-size length units
- Determine the appropriate measurement tool.
- Explore and apply understanding of estimation
- Tell time to the hour and half hour using analog and digital clocks

Timeframe	Resources
No less than 3 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF - Chapter 9 - Length ● MiF - Chapter 15 - Calendar & Time <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● Time QR Code Fun ● Time QR Task Cards ● Greg Tang Math <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● Clocks (analog and digital) ● Measurement Tools for length (standard and nonstandard) <ul style="list-style-type: none"> ○ Rulers, Yardsticks, Measuring Tapes, Etc. ○ Objects to compare lengths ○ Nonstandard Measuring Tools (such as paper clips, markers, etc) <p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● Literature Connection books - Stuart J. Murphy MathStart books
Assessment Window	
Mid-December	
Trimester	
Trimester 2	

Unit 5 – Place Value and Addition & Subtraction within 40

Students will be able to:

- Read and write numbers to 40.
- Represent numbers 0-40 concretely, pictorially and abstractly.
- Represent addition and subtraction within 40 concretely and pictorially.
 - Adding a two-digit number and a one-digit number.
 - Adding a two-digit number and a multiple of 10.
 - Subtracting multiples of 10 in the range of 10-90 (assess within 40).
- Use various strategies to solve word problems within 40 (assess within 20).
- Compare two 2-digit numbers within 40.

Timeframe	Resources
No less than 7 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF – Chapter 12 – Numbers to 40 ● MiF – Chapter 13 – Addition and Subtraction to 40 ● MiF – Chapter 14 – Mental Math Strategies <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● 3-Act Tasks ● Greg Tang Math <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● Magnetic Base 10 Blocks ● 10 Frames ● Double 10 Frames ● Place Value Charts ● Unifix Cubes ● 2-Color Counters <p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● Literature Connection books – Stuart J. Murphy MathStart books
Assessment Window	
Mid-February	
Trimester	
Trimester 2	

Unit 6 - Geometry

Students will be able to:

- Identify, classify and construct 2D and 3D shapes
 - 2D Shapes - Triangle, square, rectangle, circle, trapezoid, hexagon
 - 3D Shapes - Cone, cube, rectangular prism, sphere, cylinder, pyramid
- Distinguish between attributes of 2D and 3D shapes:
 - 2D Shapes - sides, corners
 - 3D Shapes - faces, corners
- Identify plane shapes on a solid figure (example a cube contains squares students can see this when they trace the solid figure)
- Build, create, and draw shapes that possess given attributes.
 - Use shapes to create pictures
 - Use shapes to create patterns and complete patterns
- Partition shapes into halves and quarters
 - Understand that fractions ($\frac{1}{2}$ and $\frac{1}{4}$) are a part of a whole object and are equal parts of the whole.
 - Fold paper to create halves and quarters.
 - Draw and represent halves and quarters.

Timeframe	Resources
No less than 3 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF - Chapter 5- Shapes and Patterns
Assessment Window	<p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL
Early March	<p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● Solid figures with plane shapes as their sides ● 2D and 3D shapes and figures ● Pattern Blocks
Trimester	<p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● Shape Sort ● Marshmallow Shapes ● Literature Connection books - Stuart J. Murphy MathStart books
Trimester 2	

Unit 7 - Place Value and Addition & Subtraction within 100

Students will be able to:

- Read and write numbers to 100.
- Represent numbers 0-100 concretely, pictorially and abstractly
- Represent addition and subtraction within 100 concretely and pictorially.
 - Adding a two-digit number and a one-digit number.
 - Adding a two-digit number and a multiple of 10.
 - Subtracting multiples of 10 in the range of 10-90.
- Use various strategies to solve word problems within 100 (assess within 20).
- Compare two 2-digit numbers within 100.

Timeframe	Resources
No less than 5 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> ● First Grade Rocks Math Schoology ● MiF - Chapter 16 - Numbers to 120 ● MiF - Chapter 17 - Addition and Subtraction to 100 <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> ● IXL ● 3-Act Tasks ● Greg Tang Math <p><u>Manipulatives</u></p> <ul style="list-style-type: none"> ● Magnetic Base 10 Blocks ● 10 Frames ● Double 10 Frames ● Place Value Charts ● Unifix Cubes ● 2-Color Counters <p><u>Other Resources</u></p> <ul style="list-style-type: none"> ● Literature Connection books - Stuart J. Murphy MathStart books
Assessment Window	
Mid-April	
Trimester	
Trimester 3	

Unit 8 - Data Analysis

Students will be able to:

- Organize, represent, and interpret data with up to three categories on picture graphs, bar graphs, and tally charts.
- Ask and answer questions about the data.

Timeframe	Resources
No less than 2 weeks	<p><u>Digital/Print Resources</u></p> <ul style="list-style-type: none"> • First Grade Rocks Math Schoology • MiF - Chapter 11 - Picture Graphs and Bar Graphs <p><u>Technology Resources</u></p> <ul style="list-style-type: none"> • IXL <p><u>Other Resources</u></p> <ul style="list-style-type: none"> • Literature Connection books - Stuart J. Murphy MathStart books
Assessment Window	
Mid-May	
Trimester	
Trimester 3	