**Essential Questions:**
- What kind of experiences do I need to develop number sense?
- How do I determine the best numerical representation (concrete objects, pictorial, number bonds, symbolic) for a given problem?
- Why is it important to add and subtract quickly?

**Pacing/Calendar**

<table>
<thead>
<tr>
<th>Chapter 1</th>
<th>Standards</th>
<th>Big Idea</th>
<th>Unit Objectives</th>
</tr>
</thead>
</table>
| (Aug. 27-Sept. 6) | 1.RA.B.5 - Use properties as strategies to add and subtract | The first four chapters are the most crucial for developing number sense. The number bond model for composing and decomposing numbers will be used in later grades as will the ten frames. Chapters three and four should continue to be practiced all year so that students become fluent with these facts. **Chapter 1: Counting to 10** - Students will learn to count, read, and write numbers within 10. Students will compare and verbally describe sets using same, more, or less. Students will understand the sequential order of the counting numbers and their relative magnitudes. | **Chapters 1: Counting to 10:**
- Count, read, and write numbers 0-10.
- Compare two sets of objects by using one to one correspondence.
- Understand the relationship between numbers and quantities; connect counting to cardinality. |
| **Chapter 2 (Sept. 9-Sept. 16)** | 1.RA.A.1 - Use addition and subtraction within 20 to solve problems | **Chapter 2: Number Bonds** - Number bonds form an important foundation for the learning of addition and subtraction. Students will identify the parts and whole of a set. **Chapter 3: Addition Facts to 10** - Understanding the connection between counting and addition. Understanding of the Commutative Property of Addition, which states that numbers can be added in any order and the sum will stay the same. **Chapter 4: Subtraction Facts to 10** - Learn how the part-whole concept relates to addition and subtraction. Students will learn different methods of subtraction such as counting on and number bonds. | **Chapter 2: Number Bonds:**
- Find different number bonds for numbers up to 10.
- Analyze parts and whole. |
| **Chapter 3 (Sept. 17-Sept. 30)** | 1.RA.A.3 - Develop the meaning of the equal sign and determine if equations involving addition and subtraction are true or false | **Chapter 3: Addition Facts to 10** - Count on to add. **Chapter 4: Subtraction Facts to 10** - Take away, count on, and count back to subtract. | **Chapter 3: Addition Facts to 10**
- Count on to add.
- Use number bonds to add in any order.
- Tell, write, and solve addition stories. |
| **Chapter 4 (Oct. 1-Oct. 22)** | 1.RA.B.6 - Demonstrate that subtraction can be solved as an unknown-addend problem | **Chapter 4: Subtraction Facts to 10** - Use number bonds to subtract. **Chapter 5: Problem Solving** - Use number bonds to solve subtraction problems. | **Chapter 4: Subtraction Facts to 10**
- Use number bonds to subtract. **Chapter 5: Problem Solving** - Tell, write, and solve subtraction stories. |

**40 days**

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**Unit Objectives**

- Count, read, and write numbers 0-10.
- Compare two sets of objects by using one to one correspondence.
- Understand the relationship between numbers and quantities; connect counting to cardinality.

**Chapter 2: Number Bonds**

- Find different number bonds for numbers up to 10.
- Analyze parts and whole.

**Chapter 3: Addition Facts to 10**

- Count on to add.
- Use number bonds to add in any order.
- Tell, write, and solve addition stories.

**Chapter 4: Subtraction Facts to 10**

- Take away, count on, and count back to subtract.
- Use number bonds to subtract.
- Tell, write, and solve subtraction stories.
## Essential Questions:
- Why are geometry and geometric shapes important?
- How can geometry be used to solve real-world problems?

<table>
<thead>
<tr>
<th>Pacing/Calendar</th>
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<th>Big Idea</th>
<th>Unit Objectives</th>
</tr>
</thead>
</table>
| Chapter 5       | 1.GM.A.1 - Distinguish between defining attributes versus non-defining attributes; build and draw shapes that possess defining attributes  
1.GM.A.2 - Compose and decompose two- and three-dimensional shapes to build an understanding of part-whole relationships and the properties of the original and composite shapes  
1.GM.A.3 - Recognize two- and three-dimensional shapes from different perspectives and orientations  
1.GM.A.4 - Partition circles and rectangles into two or four equal shares, and describe the shares and the wholes verbally | Chapters 5: Shapes and Patterns - Students will compose and decompose plane and solid shapes, and make patterns with plane and solid shapes. They will develop a better understanding of part-whole relationships as well as the properties of the original and composite shapes. This will build a background for learning about measurement and properties of geometry such as congruence and symmetry at higher grades. | Chapters 5: Shapes and Patterns-  
- Explore, identify, and compare plane and solid shapes in patterns and in the real world.  
- Combine and separate plane and solid shapes. |
| Chapter 6       | [Missouri Learning Standards](http://www.showme standards.org) | Chapter 6: Ordinal Numbers and Position-  
- Ordering numbers and number positions with ordinal numbers are key number concepts. Students learn to use ordinal numbers in their full and abbreviated forms. ---This chapter does provide time for students to practice +/- facts to 10, which will be crucial to chapter 8. | Chapter 6: Ordinal Numbers and Position-  
- Understand how numbers and words can be used to describe order and position. |
### Sedalia School District #200

**Level:** Elementary  
**Subject Area:** Math  
**Unit/Grade:** Unit 3---First Grade

#### Essential Questions:
- How do I know which mathematical operation to use (+, -)?
- Why do I measure?
- Why is data analyzed and collected?

#### Pacing/Calendar  
<table>
<thead>
<tr>
<th>Chapter 7 (Nov. 19-Dec. 4)</th>
<th>Standards</th>
<th>Big Idea</th>
<th>Unit Objectives</th>
</tr>
</thead>
</table>
| 1.NBT.A.1 - Understand that 10 can be thought of as a bundle of 10 ones – called a “ten” | Chapter 7: Numbers to 10 - Chapter 7 is a chapter for place value and understanding of teen numbers. Students must be able to build teen numbers as ten plus so many ones, in order to learn strategies for adding over ten. | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.NBT.A.2 - Understand two-digit numbers are composed of ten(s) and one(s) | Chapter 7: Numbers to 10 - Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.RA.A.1 - Use addition and subtraction within 20 to solve problems | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.GM.B.5 - Order three or more objects by length | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.GM.B.6 - Compare the lengths of two objects indirectly by using a third object | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.GM.B.7 - Demonstrate the ability to measure length or distance using objects | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.RA.A.2 - Solve problems that call for addition of three whole numbers whose sum is within 20 | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.RA.C.7 - Add and subtract within 20 | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.RA.C.8 - Demonstrate fluency with addition and subtraction within 10 | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.DS.A.1 - Collect, organize and represent data with up to three categories | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
| 1.DS.A.2 - Draw conclusions from object graphs, picture graphs, T-charts and tallies | Chapter 7: Numbers to 10 - Count on from 10 to 20  
- Read and write numbers 11 to 20 in standard and word form  
- Compare numbers to 20 |
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#### Chapter 8: Addition and Subtraction to 20
- Use multiple strategies to add and subtract one and two digit numbers
- Solve real-world subtraction problems

#### Chapter 9: Length
- Measure using non-standard units
- Compare the lengths of two objects

#### Chapter 11: Picture Graphs and Bar Graphs
- Collect, organize and represent data
- Draw conclusions from graphs and tally charts
### Essential Questions:
- How does mental math help me be a mathematician?
- How might there be a better way to find sums and differences?
- Does my answer and approach make sense?

### Pacing/Calendar | Standards | Big Idea | Unit Objectives
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**Chapter 12**  
(Feb. 4 - Feb. 20)  
1.NBT.A.1 - Understand that 10 can be thought of as a bundle of 10 ones – called a “ten”  
1.NBT.A.2 - Understand two-digit numbers are composed of ten(s) and one(s)  
1.NBT.B.6 - Calculate 10 more or 10 less than a given number mentally without having to count  
1.GM.C.8 - Tell and write time in hours and half-hours using analog and digital clocks  
1.RA.A.3 - Develop the meaning of the equal sign and determine if equations involving addition and subtraction are true or false  
**Chapter 12: Numbers to 40** - This is one of the most important chapters in first grade. This place value understanding is critical.

**Chapter 13**  
(Feb. 21 - Mar. 12)  
1.RA.A.4 - Determine the unknown whole number in an addition or subtraction equation relating three whole numbers  
1.RA.C.7 - Add and subtract within 20  
1.RA.C.8 - Demonstrate fluency with addition and subtraction within 10  
**Chapter 13: Addition and Subtraction to 40** - Students understand the process of exchanging ten ones for one ten and vice versa. Students spend most of the chapter with concrete materials to understand addition and subtraction and be prepared for second grade.

**Chapter 14**  
(Mar. 13 - Mar. 30)  
1.RA.A.5 - Addition and Subtraction to 40  
1.RA.A.6 - Mental Math Strategies - The mental math chapter is intended to improve student number sense and should be practiced for the rest of the year. Encourage students to share their own efficient strategies as well.

**Chapter 14: Mental Math Strategies** -  
- Mentally add 1-digit numbers, mentally add a 1-digit number to a 2-digit number, mentally add a 2-digit number to tens  
- Mentally subtract 1-digit numbers, mentally subtract a 1-digit number from a 2-digit number, mentally subtract tens from a 2-digit number

**Chapter 15**  
(Mar. 31 - Apr. 6)  
1.RA.C.9 - Time - This chapter is shortened to five days because calendar is not a MLS goal, though useful for future grades. The focus will be put upon the concept of time and the tools that measure time.

**Chapter 15: Time** -  
- Relate time to daily activities  
- Tell and write time in hours and half-hours

36 days

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### Essential Questions:
- How can I use numbers to 120?
- Why do we use base ten to add and subtract?

<table>
<thead>
<tr>
<th>Pacing/Calendar</th>
<th>Standards</th>
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<th>Unit Objectives</th>
</tr>
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<tbody>
<tr>
<td>Chapter 16 (Apr.14-Apr. 24)</td>
<td>1.NS.A.1 - Count to 120, starting at any number less than 120 1.NBT.A.3 - Compare two two-digit numbers using the symbols &gt;, = or &lt; 1.NBT.B.5 - Add within 100 1.GM.C.9 - Know the value of a penny, nickel, dime and quarter</td>
<td>Chapter 16: Numbers to 120 - This chapter lays the foundation for developing addition and subtraction skills with larger numbers, a skill that they will learn in the next chapter. Chapter 17: Addition and Subtraction to 100 - This chapter should be developed conceptually; the abstract paper pencil algorithm is not necessary to be mastered. Students should understand regrouping and place value as the work with addition and subtraction, but at the concept level. Chapter 19: Money - Students must know the value of a penny, nickel, dime, and quarter.</td>
<td>Chapter 16: Numbers to 120-  - Count on from 41-120  - Read and write numbers 41-120 in numbers and words  - Compare numbers to 100 using &lt;,&gt;, and =  Chapter 17: Addition and Subtraction to 100-  - Add within 100 without and with regrouping  - Subtract a multiple of 10 from a 2-digit number  - Subtract a 2-digit number  Chapter 19: Money-  - Know the value of penny,nickel, dime, and quarter  - Use different combinations of coins to show the same value</td>
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<tr>
<td>Chapter 17 (Apr. 27-May 8)</td>
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<td>Chapter 19 (May 11-May 21)</td>
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<td>27 days</td>
<td>Missouri Learning Standards Show Me Standards</td>
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