Teachers work very hard to pace their teaching in a way that matches their students’ needs. Because of this, not every teacher will teach the same lesson on the same day as other teachers in their grade. For consistency, however, the grade level topics are taught and assessed in the same sequence, as described below. We invite you to visit our website for additional resources and upcoming events.

Order of Topics:
- Calendar Math Routines
- Unit 1: Numbers to Ten
- Unit 2: Measurement and Ordering
- Unit 3: Number Combinations
- Unit 4: Ten and Some More
- Unit 5: Number Facts/Number Stories
- Unit 6: Shapes and Sorting
- Unit 7: Numbers to 100

Problem Solving:
In Kindergarten students are expected to:
- Learn what it means to put things together (add) and take things away (subtract)
- Learn to look for patterns
- Learn to act out math stories

Mathematics Progression through the Years:

<table>
<thead>
<tr>
<th></th>
<th>Kindergarten</th>
<th>First Grade</th>
<th>Second Grade</th>
<th>Third Grade</th>
<th>Fourth Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operations</strong></td>
<td>Addition &amp; Subtraction</td>
<td>Addition &amp; Subtraction</td>
<td>Addition &amp; Subtraction</td>
<td>Addition, Subtraction, Multiplication &amp; Division</td>
<td>Addition, Subtraction, Multiplication &amp; Division</td>
</tr>
<tr>
<td><strong>Problem Structures</strong></td>
<td>Join and separate, part-part-whole, and comparison</td>
<td>Join, separate, part-part-whole, comparison, and equal groups (as repeated addition)</td>
<td>Join, separate, part-part-whole, comparison, equal groups, arrays and area</td>
<td>Join, separate, part-part-whole, comparison, equal groups, arrays, area, and multiplicative comparison</td>
<td></td>
</tr>
<tr>
<td><strong>Complexity</strong></td>
<td>One step with unknown result</td>
<td>One step with unknown in any place and non-routine</td>
<td>One step with unknown in any place, multi-step, and non-routine</td>
<td>One step with unknown in any place, multi-step, and non-routine</td>
<td>One step with unknown in any place, multi-step, and non-routine</td>
</tr>
<tr>
<td><strong>Non-Routine Problem Solving Strategy Focus</strong></td>
<td>Look for Patterns Act it Out</td>
<td>Act it Out Draw a Picture</td>
<td>Draw a Picture Try a Simpler Problem</td>
<td>Make a Table Use Logic</td>
<td>Make an Organized List Work Backwards</td>
</tr>
</tbody>
</table>
**Fact Fluency:**
In Kindergarten students are expected to:
- Master number combinations within 5- students can see multiple ways to make smaller groups within a total (for example 4+1 =5 and 3+2=5)

**Fact Fluency Progression through the Years:**

<table>
<thead>
<tr>
<th>Assessments</th>
<th>Kindergarten</th>
<th>First Grade</th>
<th>Second Grade</th>
<th>Third Grade</th>
<th>Fourth Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Problems</strong></td>
<td>Number Combinations within 5</td>
<td>Addition &amp; Subtraction within 10</td>
<td>Addition &amp; Subtraction within 20</td>
<td>Multiplication within 100</td>
<td>Division within 100</td>
</tr>
<tr>
<td><strong>Number of Problems</strong></td>
<td>assessed through observation &amp; conferencing</td>
<td>30</td>
<td>30</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td><strong>Time Given</strong></td>
<td>Flexible timing</td>
<td>2 minutes</td>
<td>2 minutes</td>
<td>2 minutes</td>
<td>2 minutes</td>
</tr>
</tbody>
</table>

Report Card Indicators for all subject areas:
- **3 - Meeting Learning Standards/Competencies** - Student currently demonstrates an understanding and application of this particular knowledge and/or skill expected at this grade level.
- **2 - Approaching Learning Standards/Competencies** - Student currently demonstrates progress towards an understanding and application of this particular knowledge and/or skill expected at this grade level.
- **1 - Not Yet Meeting Learning Standards/Competencies** - Student currently demonstrates limited progress towards an understanding and application of this particular knowledge and/or skill expected at this grade level.
- **N/A - Not Assessed at this Time** - Learning standard has not been practiced as a class

**Grade Level Common Assessments:**
- Counting Interview, pre and post: ongoing as needed beginning in September
- End of Year Assessments: May and June

**Online Textbook Access:**
Our district is continuing to provide home access to the student math workbooks and informational videos. In order to access the *Math in Focus* materials, you need to log into the Think Central Website at [www-k6.thinkcentral.com](http://www-k6.thinkcentral.com). Username and Passwords are BOTH mtsd(student id).
For example: mstd123456

You can always access additional resources posted on our school website: [http://www.mtsd.k12.nj.us/Page/3897](http://www.mtsd.k12.nj.us/Page/3897).