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:
- Unit 1: Our Number System
- Unit 2: Shapes, Patterns, and Fractions
- Unit 3: Place Value- Ones and Tens
- Unit 4: Number Stories and Equations
- Unit 5: Measurement, Time, and Money
- Unit 6: Place Value to 120
- Unit 7: Addition and Subtraction to 100
- Unit 8: Graphing and Weight

Problem Solving:
In First grade students are expected to:
- Learn basic word problem structures for addition and subtraction
- Learn strategies to help solve open-ended, non-routine problems

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</td>
<td>Join, separate, part-part-whole, and comparison</td>
<td>Join, separate, part-part-whole, comparison, and equal groups (repeated addition)</td>
<td>Join, separate, part-part-whole, comparison, equal groups, array and area</td>
<td>Join, separate, part-part-whole, comparison, equal groups, array/area, and multiplicative comparison</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 First grade students are expected to:
  ● Master addition and subtraction facts within 10

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>Type of Problems</td>
<td>Addition &amp; Subtraction 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>Number of Problems</td>
<td>assessed through observation &amp; conferencing</td>
<td>30</td>
<td>30</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Time Given</td>
<td>assessed through observation &amp; conferencing</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 in Math:
  ● Pre-Assessments (Show What You Know) and Formative Assessments (StopLights) for each unit
  ● Problem Solving work samples collected throughout the year
  ● Fact Fluency Benchmarks: October and June
  ● Content & Skills Benchmark Assessments: October, January, and May
  ● Word Problem Structures & Modeling Assessment: April

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).