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: Place Value, Arrays, and Repeated Addition
- Unit 2: Addition and Arrays
- Unit 3: Subtraction
- Unit 4: Problem Solving
- Unit 5: Geometry & Fractions
- Unit 6: Time and Money
- Unit 7: Graphing
- Unit 8: Measuring Length and Weight

Problem Solving:
In Second grade students are expected to:
- Continue to use problem structures from earlier grades to solve one step word problems
- Solve simple multi-step word problems
- Use a variety of strategies to solve open-ended, non-routine problems
- Work accurately and communicate clearly in problem solving situations

Mathematics Progression through the Years:

<table>
<thead>
<tr>
<th>Operations</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>Problem Structures</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 (as 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>Complexity</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>Non-Routine Problem Solving</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 Second grade students are expected to:

- Maintain mastery of addition and subtraction facts within 10
- Master addition and subtraction facts within 20

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
- Measures of Academic Achievement (MAP) Math Section: 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). The username and password for Think Central are the same:

- mtsd(with the student id directly after)
- Example: mtsd123456

For further directions on how to log on to think central and utilize its resources, visit: [https://www.mtsd.k12.nj.us/Page/10793](https://www.mtsd.k12.nj.us/Page/10793)

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).