**Grade One Mathematics** 2016-2017 Year at a Glance for Families



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 (Chapters 1-4)
- Unit 2: Shapes and Patterns (Chapters 5 & 6)
- Unit 3: Place Value- Ones and Tens (Chapter 7)
- Unit 4: Number Stories and Equations (Chapter 8)
- Unit 5: Measurement and Graphing (Chapters 9-11)
- Unit 6: Place Value- Hundreds (Chapters 12 & 16)
- Unit 7: Addition and Subtraction to 100 (Chapters 13, 14, & 17)
- Unit 8: Time and Money (Chapters 15 & 19)

# 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:

	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade
Operations	Addition &	Addition &	Addition &	Addition,	Addition,
	Subtraction	Subtraction	Subtraction	Subtraction,	Subtraction,
				Multiplication &	Multiplication &
				Division	Division
Problem	Join and separate	Join, separate,	Join, separate,	Join, separate,	Join, separate,
Structures		part-part-whole,	part-part-whole,	part-part-whole,	part-part-whole,
		and comparison	comparison, and	comparison,	comparison,
			equal groups	equal groups,	equal groups,
			(repeated	array and area	array/area, and
			addition)		multiplicative
					comparison
Complexity	One step with	One step with	One step with	One step with	One step with
	unknown result	unknown in any	unknown in any	unknown in any	unknown in any
		place and non-	place, multi-step,	place, multi-step,	place, multi-step,
		routine	and non-routine	and non-routine	and non-routine
Non-Routine	Look for Patterns	Act it Out	Draw a Picture	Make a Table	Make an
Problem Solving	Act it Out	Draw a Picture	Try a Simpler	Use Logic	Organized List
Strategy Focus			Problem		Work Backwards

Fact Fluency:

In First grade students are expected to:

• Master addition and subtraction facts within 10

Assessments	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade
Type of	Addition &	Addition &	Addition &	Multiplication	Division within
Problems	Subtraction within	Subtraction	Subtraction	within 100	100
	5	within 10	within 20		
Number of	assessed through				
Problems	observation &	30	30	40	40
	conferencing				
Time Given	assessed through				
	observation &	2 minutes	2 minutes	2 minutes	2 minutes
	conferencing				

# Fact Fluency Progression through the Years:

Report Card Indicators for fact fluency:

**PROFICIENT**: 90%-100% accuracy in classwork and on timed assessments **PARTIALLY PROFICIENT**: 50%-89% accuracy in classwork and on timed assessments **NOT CURRENTLY DEMONSTRATING**: 0%-49% accuracy in classwork and on timed assessments

# Grade Level Common Assessments:

- Pre-Assessments and Formative Assessments throughout the year
- Problem Solving work samples collected throughout the year
- Fact Fluency Benchmarks: October and June
- Content & Skills Benchmark Assessments: November, January and May
- Word Problem Structures & Modeling Assessment: April

# Online Textbook Access:

As requested by families, 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 <u>www-k6.thinkcentral.com</u>. Families will use each student's 6 digit School ID number as both the Username and Password.

You can also access additional resources posted on our school website, including a more complete manual for using Think Central, by following this link: <u>http://www.mtsd.k12.nj.us/Page/3897</u>.