

## Scope and Sequence: First Grade

### What Students Learn in First Grade Mathematics

The school year begins with students exploring linear measurement, ordering objects by length and exploring non-standard measurement. Addition and subtraction, collecting and representing data, and place value continue the year’s study of math. Addition and subtraction within 20 builds on students’ prior knowledge from kindergarten, understanding addition as putting together and adding to, and subtraction as taking apart and taking from. Following this unit, the study of data presents students with the opportunity to apply working with small numbers when organizing, representing and interpreting data on a graph. Continuing the year, the study of place value extends students understanding of numbers beyond 20. Students use representations such as objects, words, and symbols to aid in their understanding of numbers to 120. Students further develop and apply these understandings when using methods to add within 100 and subtract multiples of 10. The remainder of the school year focuses on additional and supporting clusters and reasoning with shapes and attributes. Students reason about defining and non-defining attributes of geometric shapes and compose and decompose shapes. As the school year comes to a close, students explore how to tell and write time in half hours and hours using both analog and digital clocks. Students apply prior learning of concepts such as half-of, longer and shorter when working with time.

Unit Numbers and Titles		Grade 1 Students...
<b>Tri 1</b>	Introductory Week	<p><b><u>Should master:</u></b></p> <ul style="list-style-type: none"> <li>• Counting to 120</li> <li>• Place Value to 99</li> <li>• Comparing two 2-digit numbers</li> <li>• Addition and Subtraction within 10</li> <li>• Mentally adding or subtracting 10 from a 2-digit number</li> </ul> <p><b><u>Work towards fluency in:</u></b></p> <ul style="list-style-type: none"> <li>• Using strategies/concrete models to add and subtract within 20</li> <li>• Addition within 100 using various strategies</li> <li>• Measure objects using non-standard units</li> </ul> <p><b><u>Are introduced to:</u></b></p> <ul style="list-style-type: none"> <li>• Subtracting multiples of 10</li> <li>• Composing and defining attributes of 2- and 3-dimensional shapes</li> <li>• Organizing, representing and interpreting data</li> <li>• Partitioning circles and rectangles into halves and fourths</li> <li>• Telling time to the hour and half hour</li> </ul>
	Linear Measurement	
	Addition and Subtraction within 20	
<b>Tri 2</b>	Collecting and Representing Data	
	Place Value within 99	
<b>Tri 3</b>	Addition within 100 and Subtracting Multiples of 10	
	Reason with Shapes and Attributes	
	Understanding Time to the Hour and Half Hour	