

Year Long Trajectory for First Grade

Use instruction in operations to bring out:
 Operations & Algebraic Thinking
 Mathematical Reasoning
 Number & Operations in Base 10
 Measurement & Data/Geometry



Major Instructional Focus
Continuous Focus

Math/Month	September	October	November	December	January	February	March	April	May	June
Number & Operations	—————→									
Operations & Algebraic Thinking	—————→									
Measurement and Data	- - - - -→									
Geometry	- - - - -→									

Note for Measurement and Data: Use the year to explore measurement tools and train students in their accurate use (example: linear measurement). Train students in respectful, investigable questions. (Example: Think like a sociologist to collect data about our class. How many hours per week do you spend reading? What long is your shoe? How long is your arm?) Train students in data collection and display. Measurement tools become a center during math workshop. Students submit their question and plan for investigation. When it is approved, students do independent study during math workshop.

First Grade Big Ideas in Mathematics for the Year

<u>Trimester 1 – Big Ideas</u>	<u>Trimester 2 – Big Ideas</u>	<u>Trimester 3 – Big Ideas</u>
<ul style="list-style-type: none"> • Unitizing a ten • Addition and subtraction within 20 (Sept.-mid-Oct. → 10; mid-Oct. – Nov. → 20) • Word problems – all problem types • 3 addends word problems • Addition and subtraction computation within 10 using strategies to increase fluency • Understanding the equal sign (True/false number sentences) • Write numbers correctly up to 50 in a hundreds chart • One more/one less • Place value: Tens and ones • Counting to 120, starting from any number • Organize, represent, and interpret data with up to three categories 	<ul style="list-style-type: none"> • Understanding Place Value <ul style="list-style-type: none"> ○ Unitizing a ten ○ Compare 2-digit numbers ○ Add numbers within 100 based on place value (tens) (ex.32+10=) ○ Counting to 120, starting from any number ○ Subtracting multiples of ten with multiples of ten ○ Ten more/ ten less (mentally) ○ Write numbers correctly up to 120 in a hundreds chart • Word problems – all addition and subtraction problem types with result and change unknown and multiplication and measurement division with groups of ten • Addition and subtraction within 20 <ul style="list-style-type: none"> ○ Fluency is only focusing on within 10 	<ul style="list-style-type: none"> • Understanding Place Value <ul style="list-style-type: none"> ○ Unitizing a ten ○ Compare 2-digit numbers ○ Add numbers within 100 based on place value (tens and ones) (ex. 32+8=) ○ Counting to 120 ○ Subtracting multiples of ten with multiples of ten ○ Ten more/ ten less • Word problems – all addition and subtraction problem types with result and change unknown and multiplication and measurement division with groups of ten • Addition and subtraction within 20 <ul style="list-style-type: none"> ○ Fluency is only focusing on within 10
<ul style="list-style-type: none"> • Organize, represent, and interpret data with up to three categories • Time • Measurement • Geometry <p>These standards should be taught and assessed throughout the year.</p>		
<p>**It is imperative that teachers do daily routines in order to cover all of the big ideas listed in each trimester.**</p>		