

One Page Curriculum Overview

Goals of and relationships between the six notebook levels...

Notebook #1: Counting

Students will be able to count to find out how many and determine one more and one less, without having to recount the whole pile. With hands-on experience involving games and estimation, students begin to associate meaning with numbers and quantities, rather than simply memorizing a sequence of numerals.

Notebook #2: More or Less

Students will be able to compare quantities and determine how many more by counting on and how many less by counting back. Students look at larger differences in numbers, which builds on the skill of counting on and counting back that they began practicing in Counting.

Notebook #3: Combinations to 10

Students will be able to compose and decompose all numbers up to 10 quickly, without having to count. An understanding of relationships between numbers, practiced in More or Less, will help students internalize the ways numbers up to 10 can be broken into two parts (“combinations”).

Notebook#4: Strategies to 20

Students will be able to add and subtract numbers up to 20 by rearranging the numbers into tens and leftovers. Students will rely on their knowledge of combinations and their ability to decompose numbers up to 10 to rearrange the addends or subtract using ten as a landmark. In this level, students need to be able to *explain* how they got their answer.

Notebook #5: Place Value and Multi Digit Addition and Subtraction

Students will be able to use knowledge of place value to mentally add and subtract groups of 10 and 100. Students will be able to solve multi-digit addition and subtraction problems using strategies based on place value, rather than only by memorizing the procedures for borrowing and regrouping. Students use knowledge of tens and leftovers and parts of numbers, practiced in Strategies in 20, to add and subtract larger numbers.

Notebook #6: Understanding Multiplication and Division & Fluency with Multiplication

Students will be able to solve multiplication and division problems using objects, drawings, arrays, and skip counting. Student will know from memory or quick reasoning all products of two numbers up to 10×11 . Students' familiarity with repeated groups and parts of numbers, similar to ideas practiced in Combinations to 10, will reinforce the concepts of repeated addition and subtraction in multiplication and division.