

Vertical Articulation of K-8 Operations 2007 Academic Standards for Mathematics

IMPORTANT Note: The operations included below are culminating operations. The 2007 Academic Standards for Mathematics require important prerequisite work at levels of cognitive demand not noted below. The purpose of this overview is a general, at-a-glance document that can be used as comparison when making judgments about content shift for operations among grade levels in the SC 2007 Academic Standards for Mathematics versus the Common Core State Standards.

Addition	Subtraction	Multiplication	Division
Kindergarten <ul style="list-style-type: none"> Represent simple joining situations through 10 	Kindergarten <ul style="list-style-type: none"> Represent simple separating situations through 10 		
First Grade <ul style="list-style-type: none"> Generate strategies to add without regrouping through two-digit numbers 	First Grade <ul style="list-style-type: none"> Generate strategies to subtract without regrouping through two-digit numbers 		
Second Grade <ul style="list-style-type: none"> Generate strategies to add pairs of two-digit whole numbers with regrouping Generate strategies to find missing addends in number combinations through 20 	Second Grade <ul style="list-style-type: none"> Generate strategies to subtract pairs of two-digit whole numbers with regrouping Generate strategies to find missing subtrahends in number combinations through 20 	Second Grade <ul style="list-style-type: none"> Interpret models of equal groupings as arrays 	Second Grade <ul style="list-style-type: none"> Interpret models of equal sharing as arrays
Third Grade <ul style="list-style-type: none"> Add fluently 	Third Grade <ul style="list-style-type: none"> Subtract fluently 	Third Grade <ul style="list-style-type: none"> Generate strategies to multiply using one single-digit factor and one multi-digit factor 	Third Grade
Fourth Grade Decimals <ul style="list-style-type: none"> Generate strategies to add decimals through hundredths 	Fourth Grade Decimals <ul style="list-style-type: none"> Generate strategies to subtract decimals through hundredths 	Fourth Grade <ul style="list-style-type: none"> Multiply fluently 	Fourth Grade <ul style="list-style-type: none"> Generate strategies to divide by single-digit divisors
Fifth Grade Decimals <ul style="list-style-type: none"> Apply an algorithm to add decimals through thousandths Fractions <ul style="list-style-type: none"> Generate strategies to add fractions with like and unlike denominators 	Fifth Grade Decimals <ul style="list-style-type: none"> Apply an algorithm to subtract decimals through thousandths Fractions <ul style="list-style-type: none"> Generate strategies to subtract fractions with like and unlike denominators 	Fifth Grade <ul style="list-style-type: none"> Not specifically addressed in standards because maintenance skills incorporated in division 	Fifth Grade <ul style="list-style-type: none"> Divide fluently

