

K-5 Progression of Operations Based on South Carolina College- and Career-Ready Standards for Mathematics

This document is designed to give an “at-a-glance” view as to how mathematical operations progress across grades K-5 (vertical articulation of operations). This document does not provide specificity as to how standards should be addressed and the pedagogical aspects set forth in the standards. As a result, the *South Carolina College- and Career-Ready Standards for Mathematics* should be referenced and should serve as the basis for curriculum and instructional decisions.

	Kindergarten	1st	2nd	3rd	4th	5th
Addition – Whole Numbers	Within 10; fluency within 5	Through 99; fluently within 20 and fluency within 10	Through 999; Fluently through 99; facts through 20	Fluently to 1,000	Fluently with multi-digit and standard algorithm	
Subtraction	Within 10; fluency within 5	10 more/less and multiples of ten through 99; fluently within 20 and fluency within 10	Through 999; fluently through 99; facts through 20	Fluently to 1,000	Fluently with multi-digit and standard algorithm	
Addition - Fractions					Mixed numbers with like denominators of 2, 3, 4, 5, 6, 8, 10, 12, 25, 100	Mixed numbers with unlike denominators
Subtraction - Fractions					Mixed numbers with like denominators of 2, 3, 4, 5, 6, 8, 10, 12, 25, 100	Mixed numbers with unlike denominators
Addition - Decimals						To hundredths using models and drawings
Subtract - Decimals						To hundredths using models and drawings

	Kindergarten	1st	2nd	3rd	4th	5th
Multiplication – Whole Numbers				Fluency with basic facts through 100; 1-digit by multiples of 10	4-digit x 1-digit; 2-digit x 2-digit;	Fluently with whole numbers and standard algorithm
Division – Whole Numbers				No remainders; fluency with basic facts through 100;	4-digit ÷ 1-digit; with remainders	Remainders; 4-digit ÷ 2-digit
Multiplication - Fractions					Whole number and a fraction denominators of 2, 3, 4, 5, 6, 8, 10, 12, 25, 100 using visual models and equations	Whole number x a fraction; fraction x a fraction, improper fraction or mixed number
Division - Fractions						÷ unit fractions and whole numbers visual models and equations
Multiplication - Decimals						To hundredths using models and drawings
Division - Decimals						To hundredths using models and drawings