

Grade 3 Checklist

Operations and Algebraic Thinking

- _____ Represent and solve problems involving multiplication and division
- _____ Understand the properties of multiplication
- _____ Understand the relationship between multiplication and division
- _____ Multiply and divide within 100
 - a. _____ Fluently multiply and divide within 100 using strategies
 - b. _____ Fluently multiply and divide within 100 using properties of operations
 - c. _____ By end of grade 3 know from memory all products of two one-digit numbers
- _____ Solve two step word problems involving the four operations
- _____ Identify and explain patterns in arithmetic

Number and Operations in Base Ten

- _____ Use place value to round whole number to nearest 10
- _____ Use place value to round whole number to nearest 100
- _____ Fluently add and subtract within 1000 using strategies and algorithms based on place value
- _____ Fluently add and subtract within 1000 based on properties of operations
- _____ Fluently add and subtract within 1000 based on the relationship between addition and subtraction.
- _____ Multiply 1 digit whole number by multiples of 10 using strategies based on place value
- _____ Multiply 1 digit whole number by multiples of 10 using strategies based on properties of operations

Number and Operations -Fractions (denominators of 2,3,4,6 and 8)

- _____ Develop an understanding of fractions as numbers
 - a. _____ represent unit fractions, $\frac{1}{b}$ on a numberline between 0 and 1
 - b. _____ represent fractions $\frac{a}{b}$ on a numberline between 0 and 1
 - c. _____ recognize and generate simple equivalent fractions using a visual fraction model
 - d. _____ express whole numbers as fractions
 - e. _____ compare 2 fractions with the same numerator by reasoning about their sizes
 - f. _____ compare 2 fractions with the same denominator by reasoning about their sizes
 - g. _____ use $>$, $<$, $=$ symbols when comparing fractions and justify conclusion using a visual fraction model

Measurement and Data

- _____ Solve problems involving measurement
 - a. _____ Intervals of time
 - b. _____ Intervals of liquid volume
 - c. _____ Masses of objects
- _____ Understand concept of area
- _____ Relate area to multiplication
- _____ Relate area to addition
- _____ Recognize perimeter as an attribute of plane figures
- _____ Distinguish between linear and area measures
- _____ Represent and interpret data

Geometry

- _____ Reason with shapes and their attributes