

5th grade SC Ready Checklist

This document contains a list of 5th grade objectives arranged by big topics. The standard is referenced beside each objective. Remember that the SC Ready assessment will also incorporate the SC Mathematical Process Standards; therefore, it is important to also review these topics through processes such as problem solving.

Please double check for accuracy and correct any possible errors.

Whole Numbers

___ Understand that a digit represents 10 times the same digit to its right (5.NSBT.1)

___ Understand that the digit represents $\frac{1}{10}$ of the same digit to its left (5.NSBT.1)

___ Determine how many times bigger one digit is than another digit to its right (5. NSBT.1)

___ Multiply a whole number by a power of 10 (5.NSBT.2a)

___ Fluently multiply multi – digit whole numbers (5.NSBT.5)

___ Divide a whole number up to four digits by a two digit number (5.NSBT.6)

Decimals

___ Multiply a decimal by a power of 10 (5.NSBT.2b)

___ Read a decimal (5.NSBT.3)

- Standard form
- Expanded form

___ Write decimals (5.NSBT.3)

- Standard form
- Expanded form

___ Compare two decimals to the thousandths place (5.NSBT.3)

___ Round decimals to any place value within the thousandths place (5.NSBT.4)

___ Operations with decimals using concrete models and drawing

- Add (5.NSBT.7)

b. Subtract (5.NSBT.7)

c. Multiply (5.NSBT.7)

d. Divide (5.NSBT.7)

Fractions

___ Add fractions (including mixed numbers) with unlike denominators using models such as area model and number line model (5.NSF.1)

___ Subtract fractions (including mixed numbers) with unlike denominators using models such as area model and number line model (5.NSF.1)

___ Solve word problems involving addition and subtraction of fractions with unlike denominators (5.NSF.2)

___ Understand that a fraction $\frac{a}{b}$ can be written as $a \div b$ (5.NSF.3)

___ Understand that multiplying fractions is like finding the area of a rectangle with a fractional length and fractional width (5.NSF.4a)

___ Multiply a fraction by a whole number (5.NSF.4b)

___ Multiply a fraction less than one by a fraction less than one (5.NSF.4c)

___ Estimate how the size of the product is affected by the size of the factors (5.NSF.5)

- Multiplying by a number greater than one
- Multiplying by a number less than one
- Multiplying by a form of one

___ Solve word problems involving multiplication of a fraction by a ...

- Proper Fraction (5.NSF.6)
- Improper fraction (5.NSF.6)
- Mixed Number (5.NSF.6)

___ Divide a unit fraction by a whole number using visual models and equations (5.NSF.7)

___ Divide a whole number by a unit fraction using visual models and equations (5.NSF.7)

___ Solve word problems involving division of a unit fraction and a whole number (5.NSF.8)

Algebra

___ Use the order of operations to evaluate a numerical expression (5.ATO.1)

___ Translate a numerical expression to a verbal phrase (words) (5.ATO.2)

___ Translate a verbal phrase to a numerical expression (5.ATO.2)

___ Investigate the relationship between two numerical patterns (5.ATO.3)

- a. ___ Generate two numerical patterns given two rules and organize the patterns into tables (5.ATO.3a)
- b. ___ Translate a numerical pattern into ordered pairs (5.ATO.3b)
- c. ___ Graph two sets of ordered pairs on the same coordinate grid (5.ATO.3c and 5.G.2)
- d. ___ Identify the relationship between two numerical patterns (5.ATO.3d)

Geometry

___ Understand the parts of the coordinate grid (5.G.1)

___ Plot points in the first quadrant (5.G.2)

___ Interpret points in the first quadrant (5.G.2)

___ Understand and classify two dimensional shapes based on their attributes (5.G.3 and 5.G.4)

Measurement

___ Convert measurements (in, ft, yd, oz, lb, sec, min) within the customary system from larger to smaller units (5.MDA.1)

___ Convert measurements (in, ft, yd, oz, lb, sec, min) within the customary system from smaller to larger units (5.MDA.1)

___ Convert measurements (mm, cm, m, km, kg, mL, L) within the metric system from larger to smaller units (5.MDA.1)

___ Convert measurements (mm, cm, m, km, kg, mL, L) within the metric system from smaller to larger units (5.MDA.1)

___ Create a line plot using unit fractions (5.MDA.2)

___ Solve word problems involving a line plot based on unit fractions (5.MDA.2)

___ Understand that volume is an attribute of a right rectangular prism (5.MDA.3a)

___ Understand that volume is packing cubes and counting layers of cubes (5.MDA.3b)

___ Find the volume of a right rectangular prism (5.MDA.3c)

___ Differentiate among perimeter, area and volume (5.MDA.4)

___ Identify which measure (perimeter, area or volume) is most appropriate for a given situation (5.MDA.4)