

# Grade 3 Math - WPSD Critical Concepts for Progress Reports

## Level 3 – Proficiencies

\* Asterisk represents topics scored on the Progress Report

**\*Overall Math** (this score reflects Critical Concepts in all math areas)

**\* Number Sense** (this score reflects the Critical Concepts listed below)

- **Place Value**
  - PV1- Write five-digit numbers in expanded form (up to 10,000)
  - PV2 - Compare five digit numbers using  $<$ ,  $>$ ,  $=$
- **Estimation**
  - E1—Round a given number to the nearest 10 or 100
- **Patterns**
  - P1—Explain patterns in addition and subtraction
  - P2—Explain patterns in multiplication and division
- **Fractions**
  - F1—Represent unit fractions using models or diagrams
  - F2—Represent fractions with a numerator greater than 1 using models or diagrams
  - F3—Locate fractions on a number line
- **Equivalent Fractions**
  - EF1—Identify fractions equivalent to whole numbers
  - EF2—Identify simple equivalent fractions by reasoning about their size or location on a number line
  - EF3—Compare fractions with the same numerator or same denominator by reasoning about their size

**\* Number Operations** (this score reflects the Critical Concepts listed below)

- **Addition**
  - A1—Add four-digit numbers within 10,000
  - A2—Solve real world problems using addition
- **Subtraction**
  - S1—Subtract four-digit numbers within 10,000
  - S2— Solve real world problems using subtraction
- **Multiplication**
  - M1—Represent multiplication problems using models or diagrams
  - M2—Rewrite multiplication expressions as equivalent multiplication expressions in different forms using the properties of operations
  - M3—Solve multiplication problems represented as equations using various strategies
  - M4 - Solve real world problems involving multiplication.
- **Division**
  - D1—Represent division problems using models or diagrams
  - D2—Rewrite a multiplication or division equation relating three whole numbers as different multiplication and division equations relating the same numbers
  - D3—Solve division problems represented as equations using various strategies
  - D4 - Solve real world problems involving division

**\* Problem Solving** (this score reflects the Critical Concepts listed below)

- **Word Problems**
  - WP1—Write equations to model problems given as verbal descriptions or word problems
  - WP2—Solve word problems involving the four operations

**\* Measurement:** (this score reflects the Critical Concepts listed below)

- **Time**
  - T1—Tell time to the nearest minute including a.m. and p.m.
  - T2—Solve problems involving the addition and subtraction of intervals of time
- **Fractional Measurements**
  - FM1—Measure and record length to the nearest half or quarter of an inch
  - FM2—Display data sets of fractional measurements using line plots
- **Mass and Liquid Volume**
  - MLV1—Measure mass to the nearest whole unit
  - MLV2—Measure liquid volume to the nearest whole unit

**\* Geometry** (this score reflects the Critical Concepts listed below)

- **Area**
  - A1—Find the area of a rectangle by tiling it with unit squares
  - A2—Calculate the area of a rectangle by multiplying its side lengths
  - A3—Calculate the areas of rectilinear figures
- **Perimeter**
  - PR1—Calculate the perimeters of polygons
  - PR2—Find unknown side lengths of polygons
  - PR3—Create rectangles with the same perimeter and different areas or the same area and different perimeters
- **Two-Dimensional Figures**
  - TDF1—Sort a set of two-dimensional figures into simple categories and subcategories

**\* Data:** (this score reflects the Critical Concepts listed below)

- **Representing Categorical Data**
  - RCD1—Display categorical data using scaled picture and bar graphs
  - RCD2—Solve problems using information presented in scaled picture and bar graphs