

Grade 5 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)

- **Decimal Place Value**
 - DPV1—Shift a decimal value in relation to its decimal point by multiplying or dividing it by a power of 10
 - DPV2—Compare decimal values
 - DPV3 - Solve word problems involving decimal place value with one or two steps and explain their reasoning.
- **Numerical Expressions**
 - NE1—Evaluate numerical expressions
 - NE2—Write numerical expressions to represent verbal descriptions and word problems
 - NE3 - Solve word problems involving evaluating numerical expressions with one or two steps and explain their reasoning.
- **Numerical Patterns**
 - NP1—Analyze the relationships between numerical patterns
 - NP2—Use a coordinate plane to analyze the relationships between numerical patterns and solve word problems
- **Exponents**
 - E1—Evaluate whole numbers raised to whole-number powers
 - E2—Evaluate expressions involving whole-number powers of 10
 - E3- Solve word problems involving exponents with one or two steps and explain their reasoning.

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

- **Multiplication and Division**
 - MD1—Multiply multi-digit whole numbers using the standard algorithm
 - MD2—Divide multi-digit whole numbers using strategies based on place value, the properties of operations, and the relationship between multiplication and division
 - MD3—Use the properties of place value and multiples of 10 to simplify and solve problems
 - MD4 - Solve word problems involving multiplication and division with one or two steps and explain their reasoning.

*** Fractions & Decimals** (this score reflects the Critical Concepts listed below)

- **Fraction Addition and Subtraction**
 - FAS1—Add and subtract fractions with unlike denominators using a diagram or model
 - FAS2—Add and subtract fractions with unlike denominators arithmetically
 - FAS3- Solve word problems involving addition and subtraction of fractions with unlike denominators with one or two steps and explain their reasoning.
- **Fraction Multiplication**
 - FM1—Multiply fractions by fractions using a diagram or model
 - FM2—Multiply fractions by fractions arithmetically
 - FM3—Compare the size of a product of fractions to its factors without calculating the product
 - FM4 - Solve word problems involving multiplication of fractions with one or two steps and explain their reasoning.
- **Fraction Division**
 - FD1—Represent the quotient of two whole numbers as a fraction
 - FD2—Divide a whole number by a unit fraction

- FD3—Divide a unit fraction by a whole number
- FD4 - Solve word problems involving division of fractions with one or two steps and explain their reasoning.
- **Decimal Addition and Subtraction**
 - DAS1—Add and subtract decimal values
 - DAS2 - Solve word problems involving addition and subtraction of decimals with one or two steps and explain their reasoning.
- **Decimal Multiplication and Division**
 - DMD1—Multiply decimal values
 - DMD2—Divide decimal values
 - DMD3- Solve word problems involving multiplication and division of decimals with one or two steps and explain their reasoning.

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

- **Measurement Conversions**
 - MC1—Convert between measurement units within the US customary system
 - MC2—Convert between measurement units within the metric system
 - MC3 - Solve word problems involving measurement conversions with one or two steps and explain their reasoning.
- **Volume**
 - V1—Determine the volume of right rectangular prisms by packing them with unit cubes
 - V2—Calculate the volume of right rectangular prisms arithmetically
 - V3—Calculate the volume of three-dimensional figures composed of right rectangular prisms
 - V4 - Solve word problems involving volume with one or two steps and explain their reasoning.

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

- **Two-Dimensional Figures**
 - TDF1—Classify two-dimensional figures based on their properties
 - TDF2—Construct two-dimensional figures from a given set of properties
- **Coordinate Planes**
 - CP1—Graph points on a coordinate plane
 - CP2—Use a coordinate plane to solve problems