

**Michigan Center School District
Math Department Curriculum**

Updated October 21, 2014

Grade Level/Course: 5th Grade Math

Sequence of Units

- **Unit 1: Number & Operations in Base Ten**
 - **Power Strands**
 1. 5.NBT.1 Understanding each place value as 10 times larger
 2. 5.NBT.2 Powers of Ten and Exponents
 3. 5.NBT.3 Reading, Writing, & Comparing Decimals to thousandths
 4. 5.NBT.4 Rounding decimals to thousandths
 5. **5.NBT.7 Solve decimal operations (add & subtract)**
 - **Vocabulary/Key Concepts**
 1. base-ten system
 2. powers of ten
 3. place value
 4. compare ($<$, $>$, $=$)
 5. decimals (tenths, hundredths, thousandths)
 6. estimation (rounding)

- **Unit 2: Geometry**
 - **Power Strands**
 1. 5.G.1 Defining coordinate systems
 2. **5.G.2 Graphing coordinates in the first quadrant**
 - **Vocabulary/Key Concepts**
 1. Congruent (sides, angles)
 2. Coordinate system (x-axis, y-axis, ordered pairs, quadrants)
 3. Number Lines
 4. Parallelograms
 5. Properties of shapes
 6. Quadrilaterals
 7. Two-dimensional figures

- **Unit 3: Extending Multiplication & Division with Whole Numbers to Decimals**
 - **Power Strands**
 1. 5.NBT.5 Fluently multiply multi-digit whole numbers
 2. 5.NBT.6 Divide 4-digit dividends by 2-digit divisors
 3. **5.NBT.7 Solve Decimal operations (multiplication & division)**
 - **Vocabulary/Key Concepts**
 1. Product
 2. Algorithm
 3. Partial-Products

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4. Equation
 5. Rectangular Array
 6. Area Model
 7. Quotient
 8. Dividend
 9. Divisor
- **Unit 4: Connecting Fractions to Decimals**
 - **Power Strands**
 1. **5.NF.1 Adding & Subtracting Fractions with unlike denominators**
 2. **5.NF.2 Solve word problems involving addition & subtraction of fractions**
 3. **5.NF.3 Interpret a fraction as division**
 4. **5.NF.5 Interpret multiplication of fractions as scaling**
 - **Vocabulary/Key Concepts**
 1. Numerator
 2. Denominator
 3. Equivalent Fraction
 4. Fraction as Division
 5. Fraction & Decimal Equivalence

 - **Unit 5: Operations with Fractions (and Decimals)**
 - **Power Strands**
 1. **5.NF.4 Multiply a fraction by a fraction or whole number**
 2. **5.NF.6 Solve real word problems involving multiplication of fractions & Mixed Numbers**
 3. **5.NF.7 Divide fractions by whole numbers and whole numbers by fractions**

 - **Vocabulary/Key Concepts**
 1. Equivalent
 2. Product
 3. Factor
 4. Quotient
 5. Dividend
 6. Divisor
 7. Scaling (resizing)

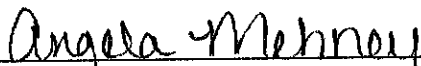
 - **Unit 6: Extending Measurement to Volume**
 - **Power Strands**
 1. **5.OA.1 Numerical Expressions**
 2. **5.OA.2 Write simple expressions**
 3. **5.MD.3 Volume**
 4. **5.MD.4 Measure Volume by counting unit cubes**
 5. **5.MD.5 Relate Volume to Multiplication and Addition**

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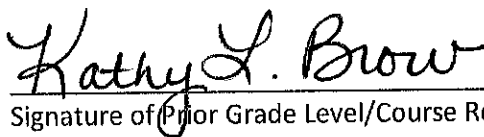
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- **Vocabulary/Key Concepts**
 1. Area
 2. Right rectangular prisms
 3. Cubic units
 4. Square units
 5. Volume
 6. Formulas
 7. Variable
 8. Order of operations
 9. Grouping symbols (parentheses, brackets, braces)

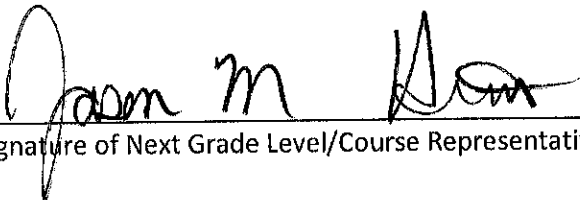
- **Unit 7: Algebraic Concepts & Skills**
 - **Power Strands**
 1. 5.OA.3 Generate patterns using given rules
 - **Vocabulary/Key Concepts**
 1. Algebraic expressions
 2. Associative property
 3. Distributive property
 4. Equations
 5. Patterns
 6. Rules



Signature of Current Grade Level/Course Representative



Signature of Prior Grade Level/Course Representative



Signature of Next Grade Level/Course Representative