

Michigan Mathematics Program Improvement Project Six Day Agenda

Day 1:

Introduction and Welcome
Explanation of Project
Review of materials and website
Discussion of student misconceptions

-Lunch-

Whole Number Topics:

- WN1 Quantification of set of objects to 4.
- WN2 Counting to quantify sets of objects.
- WN3 Counting forward and backward.
- WN4 Associate numerals with counting.
- WN5 Relative value of numbers/position on the number line.
- WN6 All combinations for each numeral.
- WN7 Place value.

Review of Diagnostic Inventory for whole number place value and numeration

Day 2:

Whole Number Topics:

- WN8 Meaning of addition and subtraction.
- WN9 Addition and subtraction fact families and relationships.

-Lunch-

- WN10 Addition and subtraction
- WN11 Multiple digit addition and subtraction

Review of Diagnostic Inventory for whole number addition and subtraction

Day 3:

Whole Number Topics:

- WN12 Meaning of multiplication and division.
- WN13 Multiplication and division fact families.
- WN15 Multiplying by multiples of powers of ten
- WN16 Distributive multiplication.
- WN17 Multiplying by multi-digits numbers
- WN18 Multiples and factors

-Lunch-

- WN19 Division as a fraction
- WN20 Equivalent division problems
- WN21 Division algorithm with no remainder
- WN22 Division algorithm with remainder
- WN23 Division algorithm with remainders as fractions remainders as fractions
- WN24 Division algorithm with decimal remainders
- WN25 Use Estimation and Approximation

Review of Diagnostic Inventory for whole number multiplication and division

Day 4:

Decimal Topics:

- D1 Meaning
- D2 Counting and writing
- D3 Size comparison and the numberline
- D4 Rounding decimals
- D5 Relationship to money
- D6 Addition and subtraction

-Lunch-

- D7 Multiplication of decimals
- D8 Division of decimals
- D9 Fractions converted to decimals
- D10 Decimals converted to fractions
- D11 Percent to decimal conversion
- D12 Percent computation
- D13 Percent computation with easy fractions

Review of Diagnostic Inventory for Decimal (Basic)

Day 5:**Fraction Topics**

- F1 Meaning of fractions.
- F2 Vocabulary related to fractions.
- F3 Ordering fractions (common denominators and less than one) and placing them on the number line.
- F4 Ordering fractions (common denominators and greater than one) by placing them on the number line.
- F5 Learn the set model for fractions.
- F6 Equivalent fractions.
- F7 Fractions on the number line.
- F8 Fractions >1 as mixed numbers.
- F9 Order fractions without the number line.

Lunch

- F10 Add and subtract fractions.
- F11 Multiply a fraction by a whole number.
- F12 Relationship of dividing by a whole number and multiplying by a fraction.
- F13 Multiply fractions less than one.
- F14 Multiply any two fractions.
- F15 Division of fractions.

Review of Diagnostic Inventory for Fraction (Basic)

Day 6:**Rational Number and Integer Topics:**

- R1 Factorization
- R2 Rational Numbers
- R3 Rate, Ratio, and Proportion

-Lunch-

- R4 Exponents, Roots, and Scientific Notation
- I1 Understand and Compute with Integers

Discussion of program improvement

Evaluation