**Major Work of the Level (MWOTL)**

**Resource: Major Work of the Levels**

This document is not meant to be a substitute for the CCR Standards for Adult Education; rather, it is meant to be used in conjunction with the CCR Standards for Adult Education, where full descriptions of the major work can be found in the introductions for each level.

Color key: Black = Number, Red = Algebra, Blue = Geometry, Green = Statistics and Probability

**Level A (CCSS Grades K-1/Beginning ABE):**

Number: Developing understanding of whole number place value for tens and ones

Number: Developing understanding of addition and subtraction and the properties of these operations

Geometry: Describing and reasoning about shapes and their attributes

Geometry: Developing understanding of linear measurement

**Level B (CCSS Grades 2-3/ABE I):**

Number: Extending understanding of base-10 notation

Number: Adding and subtracting to 1,000; fluency and application to 100

Number: Understanding multiplication and division of whole numbers to 100

Number: Understanding division as inverse of multiplication; single-digit divisors

Number: Developing understanding of fractions, especially unit fractions

Geometry: Using standard units of measure for length, time, liquid volume, and mass

Geometry: Developing understanding of area and its relationship to addition and multiplication

Geometry: Analyzing and partitioning 2-dimensional shapes

**Level C (CCSS Grades 4-5 + 6/ABE II):**

Number: Extending the number system to positive rational numbers

Number: Extending place value understanding for decimals to thousandths

Number: Attaining fluency with operations, using multi-digit whole numbers and decimals

Number: Understanding fraction equivalence and comparison

Number: Developing fluency with sums and differences of fractions

Number: Connecting ratio and rate to whole number multiplication and division

Algebra: Writing, evaluating, and interpreting expressions and equations

Geometry: Developing understanding of the coordinate plane

Geometry: Classifying geometric 2-dimensional figures based on properties

Geometry: Developing an understanding and solving problems involving volume and surface area

Statistics and Probability: Developing understanding of statistical variability

**Level D (CCSS Grades 6 + 7-8/ABE III):**

Number: Extending number sense and fluency with operations to all rational numbers

Number: Understanding ratio and rate and using them to solve problems

Algebra: Applying proportional relationships

Algebra: Working with expressions and linear equations

Algebra: Solving linear equations and systems of linear equations

Algebra: Developing the concept of function

Algebra: Graphing functions in the coordinate plane and analyzing their graphs

Geometry: Solving problems involving scale drawings

Geometry: Solving problems involving 2- and 3-dimensional figures: area, surface area, and volume

Geometry: Analyzing 2- and 3-dimensional shapes using side length and angle measurements, similarity, and congruence

Geometry: Applying the Pythagorean theorem

Statistics and Probability: Understanding patterns of association for bivariate data and describing them with a linear equation, when appropriate

Statistics and Probability: Summarizing and interpreting data and data distributions

Statistics and Probability: Understanding and applying probability concepts

Statistics and Probability: Drawing inferences about populations based on random samples (probability distributions)

**Level E (CCSS Grades 9-12/ASE I and II):**

Number: Extending understanding of number systems to the set of real numbers

Number: Writing equivalent expressions involving radicals and rational exponents

Number: Reasoning quantitatively and the use of units and appropriate levels of precision

Algebra: Defining, evaluating, comparing, and modeling with linear, quadratic, and exponential functions and equations

Algebra: Building, interpreting, and analyzing functions using different representations

Algebra: Reasoning with and solving linear, quadratic, and exponential equations and linear inequalities

Algebra: Interpreting and using the structure of expressions to solve problems

Algebra: Operating with algebraic expressions, including polynomials and rational expressions

Geometry: Applying similarity and congruence concepts to geometric figures, including triangles

Geometry: Using geometric models and volume formulas to solve measurement problems

Statistics and Probability: Summarizing, representing, and interpreting one- and two-variable data, including using frequency tables