

Major Work of the CCR Adult Education Levels
Color key: Black = Number, Red = Algebra, Blue = Geometry,
Green = Statistics and Probability

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

Developing understanding of whole number place value for tens, and ones
Developing understanding of addition and subtraction and the properties of these operations

***Developing initial understanding of equation, variable and the meaning of the equal sign**

Describing and reasoning about shapes and their attributes
Developing understanding of linear measurement

***Organize, represent and interpret simple categorical data**

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

Extending understanding of base-10 notation
Adding and subtracting to 1,000; fluency to 100
Understanding multiplication and division of whole numbers to 100
Understanding division as inverse of multiplication; single-digit divisors
Developing understanding of fractions, especially unit fractions

***Identify and explain patterns in arithmetic**

Using standard units for linear measure
Developing understanding of area and its relationship to addition and multiplication
Analyzing 2-dimensional shapes

***Beginning understanding of scaling picture and bar graphs**

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

Extending the number system to positive rational numbers
Extending place value understanding to decimals
Attaining fluency with multi-digit operations using whole numbers and decimals
Understanding fraction equivalence and comparison
Developing fluency with sums and differences of fractions
Connecting ratio and rate to whole number multiplication and division

Writing, evaluating, and interpreting expressions and equations

Developing understanding of the coordinate plane
Classifying 2-dimensional shapes based on sides and angles
Developing an understanding of volume and surface area

Developing understanding of statistical variability and measures of center and distribution

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

Extending number sense and fluent operations to all rational numbers, including negatives

Understanding ratio and rate and using them to solve problems

Applying proportional relationships

Working with expressions and linear equations

Solving linear equations and systems of linear equations

Developing the concept of function

Graphing functions in the coordinate plane and analyzing their graphs

Classifying geometric figures based on properties

Solving problems involving scale drawings

Measuring 2- and 3-dimensional figures: area, surface area, and volume

Analyzing 2- and 3-dimensional shapes using distance and angle measurements, similarity, and congruence

Applying the Pythagorean theorem

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

Summarizing data and data distributions

Drawing inference about populations based on random samples (probability distributions)

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

Extending understanding of number systems to the set of real numbers

Writing equivalent expressions involving radicals and integer exponents

Reasoning quantitatively through the use of units and appropriate levels of precision

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

Building, interpreting, and analyzing functions using correct notation

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

Interpreting and using the structure of expressions to solve problems

Operating with algebraic expressions, including polynomials and rational expressions

Applying similarity and congruence concepts to geometric figures, including right triangles

Using geometric models to solve measurement problems involving volume

Summarizing, describing, displaying, and interpreting data

Understanding and applying probability concepts

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