Class Planning Chart: Major Work of the Levels

Page numbers correlate to CCRS for Adult Education, 2013

| College and Career Readiness Standards, 2013 | Student's First and Last Name | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 1**<br>**CCRS Topic** | | | | | | | |
| p. 51 | **Number:** Understanding whole number place value for tens and ones | | | | | | | |
| p. 52 | **Number:** Addition, Subtraction, Commutative and Associative Properties | | | | | | | |
| pp. 52-53 | **Geometry:** Shapes & their attributes (# sides, vertices, composite shapes) | | | | | | | |
| p 53 | **Geometry:** Understanding of linear measurement | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 2 CCRS Topic** | | | | | | | |
| p. 54 | **Number:** Extending understanding of base-10 notation (place value to 1000 and expand, e.g., 1204 = 1000 + 200 + 4) | | | | | | | |
| pp. 54-55 | **Number:** Adding and subtracting to 1000, fluency and application to 100 | | | | | | | |
| p. 55 | **Number:** Multiplication and division of whole numbers to 100 (distributive property of multiplication over addition), e.g., $3(4 + 2) = 3 \times 4 + 3 \times 2$ | | | | | | | |
| p. 56 | **Number:** Understanding division as inverse (opposite) of multiplication | | | | | | | |
| p. 55 | **Number:** Developing understanding of fractions, especially unit fractions (1/1, 1/2, 1/3) | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 2 CCRS Topic** | | | | | | | |
| p. 58 | **Geometry:** Using metric units of measure for length, time, volume, and mass (same units) | | | | | | | |
| pp. 58-59 | **Geometry:** Developing understanding of area and its relationship to addition and multiplication. | | | | | | | |
| p. 57 | **Geometry:** Analyzing and partitioning 2-dimensional shapes (shared attributes, e.g., rhombus, square, and rectangle are all quadrilaterals). | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 3 CCRS Topic** | | | | | | | |
| p. 62 | **Number:** Extending the number system to positive rational numbers. | | | | | | | |
| p. 61 | **Number:** Extending place value understanding for decimals to thousandths; also, estimation | | | | | | | |
| p. 61 | **Number:** Attaining fluency with operations, using multi-digit whole numbers and decimals. | | | | | | | |
| p. 62 | **Number:** Understanding fraction equivalence and comparison (e.g., 1/2 = 4/8; 2/3 > 1/2) | | | | | | | |
| p. 63 | **Number:** Developing fluency with sums and differences of fractions. | | | | | | | |
| p. 64 | **Number:** Connecting ratio and rate to whole number multiplication and division. | | | | | | | |

Class Planning Chart: Major Work of the Levels

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 3 CCRS Topic** | | | | | | | |
| p. 65 | **Algebra:** Writing, evaluating, and interpreting expressions and equations. | | | | | | | |
| p. 67 | **Geometry:** Developing understanding of the coordinate plane. | | | | | | | |
| p. 67 | **Geometry:** Classifying geometric 2-dimensional figures based on properties. | | | | | | | |
| p. 67 | **Geometry:** Developing an understanding of and solving problems involving volume and surface area. | | | | | | | |
| p. 69 | **Statistics and Probability:** Developing an understanding of statistical variability. | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 4 CCRS Topic** | | | | | | | |
| pp. 70-71 | **Number:** Extending number sense and fluency with all operations to all rational numbers. | | | | | | | |
| p. 72 | **Number:** Understanding ratio and rate and using them to solve problems. | | | | | | | |
| pp. 72-73 | **Algebra:** Applying proportional relationships. | | | | | | | |
| p. 73 | **Algebra:** Working with expressions and linear equations. | | | | | | | |
| p. 74 | **Algebra:** Solving linear equations and systems of linear equations. | | | | | | | |
| p. 75 | **Algebra:** Graphing functions in the coordinate plane and analyzing their graphs. | | | | | | | |

| College and Career Readiness Standards, 2013 | Student's First and Last Name | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 4 CCRS Topic** | | | | | | | |
| p. 75 | **Geometry:** Solving problems involving scale drawings. | | | | | | | |
| p. 75 | **Geometry:** Solving problems involving 2- and 3-dimensional figures: area, surface area, and volume. | | | | | | | |
| p. 76 | **Geometry:** Analyzing 2- and 3-dimensional shapes using side length and angle measurements, similarity, and congruence. | | | | | | | |
| p. 76 | **Geometry:** Applying the Pythagorean Theorem. | | | | | | | |
| pp. 77-78 | **Statistics and Probability:** Understanding patterns of association for bivariate data and describing them with a linear equation, when appropriate. | | | | | | | |
| p. 76 | **Statistics and Probability:** Summarizing and interpreting data and data distributions. | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Level 4**<br>**CCRS Topic** | | | | | | | |
| p. 77 | **Statistics and Probability:** Understanding and applying probability concepts. | | | | | | | |
| p. 77 | **Statistics and Probability:** Drawing inferences about populations based on random samples (probability distributions). | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Page Number | **NRS Levels 5 and 6 CCRS Topic** | | | | | | | |
| p. 79 | **Number:** Extending understanding of number systems to the set of real numbers. | | | | | | | |
| p. 79 | **Number:** Writing equivalent expressions involving radicals and rational exponents. | | | | | | | |
| p. 80 | **Number:** Reasoning quantitatively and the use of units and appropriate levels of precision. | | | | | | | |
| p. 82 | **Algebra:** Defining, evaluating, comparing, and modeling with linear, quadratic, and exponential functions and equations. | | | | | | | |
| pp. 81-82 | **Algebra:** Building, interpreting, and analyzing functions using different representations. | | | | | | | |
| pp. 81-82 | **Algebra:** Reasoning with and solving linear, quadratic, and exponential equations and linear inequalities. | | | | | | | |

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| Page Number | **NRS Levels 5 and 6 CCRS Topic** | | | | | | | |
| pp. 79-80 | **Algebra:** Interpreting and using the structure of expressions to solve problems. | | | | | | | |
| p. 80 | **Algebra:** Operating with algebraic expressions, including polynomials and rational expressions. | | | | | | | |
| p. 83 | **Geometry:** Applying similarity and congruence concepts to geometric figures, including triangles. | | | | | | | |
| pp. 83-84 | **Geometry:** Using geometric models and volume formulas to solve measurement problems. | | | | | | | |
| pp. 83-84 | **Statistics and Probability:** Summarizing, representing, and interpreting 1- and 2-variable data, including using frequency tables. | | | | | | | |