

<b>Organization Name</b>	<b>Department of Corrections ABE Programs</b>
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<b>Class/Program Name</b>	<b>GED Literacy 3 Math</b>				
<i>Class Site(s)</i>	DOC		<i>Days &amp; Times</i>	M-F; 90 minutes	
<i>Student Placement Level(s)</i>	6.0-12.9	<i>Class Assessment(s)</i>	TABE; GED Ready; book reviews/tests	<i>Scaled Score Range</i>	
<i>Class Led By</i>	ABE Literacy Teachers	<i>Delivery Style</i>	Class X	One-to-One X	Distance Learning Hybrid Other
<i>Class Goals</i>	Attain mathematical competency in Number sense, algebra, geometry and statistics/probability				
<i>Standards Addressed</i>	College and Career Readiness Standards (CCRS)		<p>Level D: Fractions, Ratios, Proportions, Equivalent Expressions, Real-life mathematical problems, Solve linear equations, Compare functions, Draw and describe geometric figures, Area &amp; Volume, Pythagorean Theorem, Mean/Median, Probability</p> <p>Level E Number Sense: Extend the properties of exponents to rational exponents Reason quantitatively and use units to solve problems</p> <p>Level E Algebra: Interpret the structure of expressions Perform arithmetic operations on polynomials Create equations that describe numbers or relationships Understand solving equations as a process of reasoning and explain the reasoning Solve equations and inequalities in one variable Solve systems of equations Represent and solve equations and inequalities graphically</p>		

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		<p>Construct and compare linear, quadratic and exponential models and solve problems</p> <p>Level E Geometry:          Experiment with transformations in the plane          Prove theorems involving similarity          Explain volume formulas and use them to solve problems          Apply geometric concepts in modeling situations</p> <p>Level E Statistics &amp; Probability:          Summarize, represent and interpret data on a single count or measurable variable          Summarize, represent and interpret data on two categorical and quantitative variables          Interpret linear models</p>
	Academic, Career, and Employability Skills Transitions Integration Framework (ACES TIF)	<p>Effective Communication: Skills 1-3          Learning Strategies: Skills 1-4          Academic Language &amp; Skills: Skills 1-3, 5          Critical Thinking: Skills 1-4          Self-Management: Skills 1-3          Navigating Systems: Skills 1-2</p>
	Northstar Digital Literacy Standards	<p>Microsoft Excel          PowerPoint</p>
	Other?	<p>Technology: DOC Offender Network</p>

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<i>Class Content</i>	<b>Number Sense</b>	
	<b>Competency</b>	<b>Core Materials</b>
	Estimating: Mental math and rounding	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Whole Numbers Unit 3 Steck-Vaughn Top Line-Number Concepts Units 3 & 4 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Adding and subtracting positive and negative multiple numbers	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Algebra Unit 3-5 Steck-Vaughn Top Line-Number Concepts #11 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Multiplying and dividing positive and negative multiple numbers	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Algebra Unit 6 Steck-Vaughn Top Line-Number Concepts #12 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Order of operations	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Algebra Unit 7 Steck-Vaughn Top Line-Pre Algebra #2 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Fractions: add, subtract, multiply, divide, convert	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Fractions #8-20 Steck-Vaughn Top Line-Fractions #9-18 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Decimal: add, subtract, multiply, divide, convert	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Decimals #4-20 Steck-Vaughn Top Line-Decimals #5-11 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving

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	Percents: find percent of whole, convert to fraction/decimal	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Percents #2-5 Steck-Vaughn Top Line-Percents #8-12 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Problem solving: multi-step, real-life problems	Steck Vaughn Algebraic Reasoning Unit 1 Steck-Vaughn Top Line-Mathematical Reasoning #3 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	Ratios and proportions	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Ratios and Proportions #1-20 Steck-Vaughn Top Line- Ratios and Percents #1 & #4 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	US and metric measurements	Steck Vaughn Algebraic Reasoning Unit 1 New Readers Press-Measurements #1-20 New Readers Press-Geometry/Measurement Steck-Vaughn Top Line-Measurements #1-23 Contemporary Number Power 1 & 2, 6-Word Problems & 7-Problem Solving
	<b>Algebra</b>	
	Competency	Core Materials
	Simplify algebraic expressions (combining like terms)	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #12 Steck-Vaughn Top Line-PreAlgebra #4 Steck-Vaughn Key to Algebra packet #2 Contemporary Number Power 3-Algebra

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	Factor Polynomial - GCF	Steck Vaugh Algebraic Reasoning Unit 3 Steck Vaughn Key to Algebra #4 Contemporary Number Power 3-Algebra
	Solve algebraic equations - inequalities with one variable <b>CCRS level E</b>	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #9-11 Steck-Vaughn Top Line-PreAlgebra p.5-6 Steck-Vaughn Key to Algebra packet #3 Contemporary Number Power 3-Algebra
	Solve algebraic equations - inequalities with two variables <b>CCRS level E</b>	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #15 Steck-Vaughn Top Line-PreAlgebra #15 Contemporary Number Power 3-Algebra
	Graph and analyze linear equations	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #17-18 Steck-Vaughn Key to Algebra packet #8 Contemporary Number Power 3-Algebra
	Interpret functions (slope and intercepts) <b>CCRS level E</b>	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #15-18 Steck-Vaughn Top Line-PreAlgebra p.42-43 Contemporary Number Power 3-Algebra

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	Simplify polynomial expressions	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #10 Steck-Vaughn Key to Algebra packet #4 Contemporary Number Power 3-Algebra
	Integer exponents, square root	Steck Vaugh Algebraic Reasoning Unit 3 Steck-Vaughn Top Line PreAlgebra #14-17 Steck-Vaughn Top Line Number Concepts #4 Contemporary Number Power 3-Algebra
	Solve polynomial equations	Steck Vaugh Algebraic Reasoning Unit 3 New Readers Press-Algebra #9-11 Steck-Vaughn Top Line-PreAlgebra p.5-6 Steck-Vaughn Key to Algebra packet #3 Contemporary Number Power 3-Algebra
	Scientific notation	Steck Vaugh Algebraic Reasoning Unit 3 McDougal Littell Algebra 1-Lesson 8.5 Contemporary Number Power 3-Algebra
	<b>Geometry</b>	
	Competency	Core Materials
	Solve problems using two dimensional objects: perimeter and area	Steck Vaughn Algebraic Reasoning Unit 4 New Readers Press-Geometry #12-13 Steck-Vaughn Top Line-Measurement #8-10 Contemporary Number Power 4-Geometry

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	Solve problems using three dimensional objects: surface area and volume <b>CCRS Level E</b>	Steck Vaughn Algebraic Reasoning Unit 4 New Readers Press-Geometry #18-19 Steck-Vaughn Top Line-Geometry Unit #5 Contemporary Number Power 4-Geometry
	Similar figures for scale drawings, map reading, blueprint reading	Steck Vaughn Algebraic Reasoning Unit 4 Steck-Vaughn Top Line Measurement #6 Contemporary Number Power 4-Geometry
	Pythagorean Theorem	Steck Vaughn Algebraic Reasoning Unit 4 New Readers Press-Geometry #9 Steck-Vaughn Top Line-Geometry #14 Contemporary Number Power 4-Geometry
	<b>Data, Statistics &amp; Probability</b>	
	Competency	Core Materials
	Mean, median, mode and range	Steck Vaughn Algebraic Reasoning Unit 2 Steck-Vaughn Top Line-Data Analysis and Probability #1-4 Contemporary Number Power 8-Analyzing Data & 5- Graphs
	Interpret data and solve problems related to graphic representations <b>CCRS Level E</b>	Steck Vaughn Algebraic Reasoning Unit 2 Steck-Vaughn Top Line-Data, Tables, and Graphs-Pretest Steck-Vaughn Top Line-Data Analysis and Probability #6 Contemporary Number Power 8-Analyzing Data & 5- Graphs
	Make and evaluate inferences based on data found in charts, graphs, and tables <b>CCRS Level E</b>	Steck Vaughn Algebraic Reasoning Unit 2 Steck-Vaughn Top Line-Data, Tables, and Graphs-Pretest Steck-Vaughn Top Line-Data, Tables, and Graphs #1-5 Contemporary Number Power 8-Analyzing Data & 5- Graphs

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<i>Class Activities</i>	Direct instruction, independent practice, worksheets and tests
<i>Class Text(s), Educational Technology, &amp; Other Instructional Materials</i>	Steck-Vaughn Mathematical Reasoning-Student and Work Books Math Sense-Focus on Problem Solving