

NRP Online Learning: Pre-HSE and GED® Test Prep courses correlated to GED Indicators

Indicator Code	Reading Through Language Arts Indicator Description	Pre-HSE RLA Course (NRP 7165)	GED RLA Course (NRP 7167)
Determine central ideas or themes of texts and analyze their development; summarize the key supporting details and ideas.			
R.2.1	Comprehend explicit details and main ideas in text.	Unit 3, Lesson 2	Unit 2, Lesson 1
R.2.2	Summarize details and ideas in text.	Unit 3, Lesson 6	Unit 2, Lesson 2
R.2.3	Make sentence level inferences about details that support main ideas.	Unit 3, Lesson 4	Unit 1, Lesson 6
R.2.4	Infer implied main ideas in paragraphs or whole texts.	Unit 3, Lesson 4	Unit 2, Lesson 1
R.2.5	Determine which detail(s) support(s) a main idea	Unit 3, Lesson 2	Unit 2, Lesson 5
R.2.6	Identify a theme, or identify which element(s) in a text support a theme.	Unit 1, Lesson 6 Unit 2, Lesson 5	Unit 1, Lesson 5
R.2.7	Make evidence based generalizations or hypotheses based on details in text, including clarifications, extensions, or applications of main ideas to new situations.	Unit 3, Lesson 4	Unit 2, Lesson 6
R.2.8	Draw conclusions or make generalizations that require synthesis of multiple main ideas in text.	Unit 3, Lesson 4	Unit 2, Lesson 6
Analyze how individuals, events, and ideas develop and interact over the course of a text.			
R.3.1	Order sequence of events in texts.	Unit 3, Lesson 3	Unit 2, Lesson 3
R.3.2	Make inferences about plot/sequence of events, characters/people, settings, or ideas in texts.	Unit 1, Lessons 1, 3, 4	Unit 1, Lessons 2, 3
R.3.3	Analyze relationships within texts, including how events are important in relation to plot or conflict; how people, ideas, or events are connected, developed, or distinguished; how events contribute to theme or relate to key ideas; or how a setting or context shapes structure and meaning.	Unit 1, Lessons 1, 2, 3, 4, 6	Unit 1, Lesson 5 Unit 2, Lesson 4
R.3.4	Infer relationships between ideas in a text (e.g., an implicit cause and effect, parallel, or contrasting relationship).	Unit 3, Lesson 3	Unit 2, Lesson 4
R.3.5	Analyze the roles that details play in complex literary or informational texts.	Unit 3, Lessons 1, 2	Unit 2, Lesson 1
Interpret words and phrases that appear frequently in texts from a wide variety of disciplines, including determining connotative and figurative meanings from context and analyzing how specific word choices shape meaning or tone.			
R.4.1 L.4.1	Determine the meaning of words and phrases as they are used in a text, including determining connotative and figurative meanings from context.	Unit 1, Lesson 5 Unit 2, Lessons 2, 3, 4	Unit 1, Lessons 7, 8
R.4.2 L.4.2	Analyze how meaning or tone is affected when one word is replaced with another.	Unit 1, Lesson 5 Unit 2, Lesson 4	Unit 1, Lessons 4, 7
R.4.3 L.4.3	Analyze the impact of specific words, phrases, or figurative language in a text, with a focus on an author's intent to convey information or construct an argument.	Unit 3, Lessons 3, 5	Unit 1, Lesson 7

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Analyze the structure of texts, including how specific sentences or paragraphs relate to each other and the whole.			
R.5.1	Analyze how a particular sentence, paragraph, chapter, or section fits into the overall structure of a text and contributes to the development of the ideas	Unit 1, Lesson 4	Unit 5, Lesson 4
R.5.2	Analyze structural relationship between adjacent sections of text (e.g., how one paragraph develops or refines a key concept or how one idea is distinguished from another).	Unit 3, Lesson 3	Unit 5, Lesson 5
R.5.3	Analyze transitional language or signal words (words that indicate structural relationships, such as consequently, nevertheless, otherwise) and determine how they refine meaning, emphasize certain ideas, or reinforce an author's purpose.	Unit 3, Lessons 3, 5 Unit 5, Lesson 3	Unit 5, Lesson 5
R.5.4	Analyze how the structure of a paragraph, section, or passage shapes meaning, emphasizes key ideas, or supports an author's purpose.	Unit 3, Lessons 3, 5	Unit 5, Lesson 4
Determine an author's purpose of point of view in a text and explain how it is conveyed and shapes the content and style of a text.			
R.6.1	Determine an author's point of view or purpose of a text.	Unit 1, Lesson 2 Unit 3, Lesson 5	Unit 1, Lesson 1 Unit 2, Lesson 5
R.6.2	Analyze how the author distinguishes his or her position from that of others or how an author acknowledges and responds to conflicting evidence or viewpoints	Unit 3, Lesson 5	Unit 2, Lesson 5
R.6.3	Infer an author's implicit as well as explicit purposes based on details in text.	Unit 3, Lessons 4, 5	Unit 2, Lesson 5
R.6.4	Analyze how an author uses rhetorical techniques to advance his or her point of view or achieve a specific purpose (e.g., analogies, enumerations, repetition and parallelism, juxtaposition of opposites, qualifying statements).	Unit 3, Lesson 5	Unit 2, Lesson 5
Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.			
R.8.1	Delineate the specific steps of an argument the author puts forward, including how the argument's claims build on one another.	Unit 3, Lessons 2, 5	Unit 5, Lesson 1
R.8.2	Identify specific pieces of evidence an author uses in support of claims or conclusions.	Unit 3, Lessons 2, 5	Unit 5, Lesson 1
R.8.3	Evaluate the relevance and sufficiency of evidence offered in support of a claim.	Unit 3, Lesson 2	Unit 5, Lesson 2
R.8.4	Distinguish claims that are supported by reasons and evidence from claims that are not.	Unit 3, Lesson 2	Unit 5, Lesson 2
R.8.5	Assess whether the reasoning is valid; identify fallacious reasoning in an argument and evaluate its impact.	Unit 3, Lesson 2	Unit 5, Lesson 2
R.8.6	Identify an underlying premise or assumption in an argument and evaluate the logical support and evidence provided.	Unit 3, Lessons 2, 5	Unit 5, Lesson 3
Analyze how two or more texts address similar themes or topics.			
R.9.1 R.7.1	Draw specific comparisons between two texts that address similar themes or topics or between information presented in different formats (e.g., between information presented in text and information or data summarized in a table or timeline).	Unit 3, Lessons 3, 4	Unit 5, Lesson 1
R.9.2	Compare two passages in similar or closely related genre that share ideas or themes, focusing on similarities and/or differences in perspective, tone, style, structure, purpose, or overall impact.	Unit 6, Lesson 1	Unit 5, Lesson 1

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R.9.3	Compare two argumentative passages on the same topic that present opposing claims (either main or supporting claims) and analyze how each text emphasizes different evidence or advances a different interpretation of facts.	Unit 6, Lesson 1	Unit 5, Lesson 1
R.7.2	Analyze how data or quantitative and/or visual information extends, clarifies, or contradicts information in text, or determine how data supports an author's argument.	Unit 3, Lessons 1, 3	Unit 5, Lesson 1
R.7.3	Compare two passages that present related ideas or themes in different genre or formats (e.g., a feature article and an online FAQ or fact sheet) in order to evaluate differences in scope, purpose, emphasis, intended audience, or overall impact when comparing.	Unit 3, Lessons 3, 5	Unit 5, Lesson 1
R.7.4	Compare two passages that present related ideas or themes in different genre or formats in order to synthesize details, draw conclusions, or apply information to new situations.	Unit 3, Lessons 3, 4, 5	Unit 2, Lesson 6
Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.			
L.1.1	Edit to correct errors involving frequently confused words and homonyms, including contractions (passed, past; two, too, to; there, their they're; knew, new; it's, its).	Unit 4, Lesson 9	Unit 4, Lesson 7
L.1.2	Edit to correct errors in straightforward subject-verb agreement.	Unit 4, Lessons 6, 8	Unit 3, Lesson 10
L.1.3	Edit to correct errors in pronoun usage, including pronoun-antecedent agreement, unclear pronoun references, and pronoun case.	Unit 4, Lesson 6	Unit 3, Lessons 8, 11
L.1.4	Edit to eliminate non-standard or informal usage (e.g., correctly use try to win the game instead of try and win the game).	Unit 4, Lesson 9 Unit 6, Lesson 3	Unit 4, Lesson 1
L.1.5	Edit to eliminate dangling or misplaced modifiers or illogical word order (e.g., correctly use to meet almost all requirements instead of to almost meet all requirements.)	Unit 4, Lesson 1	Unit 3, Lesson 7
L.1.6	Edit to ensure parallelism and proper subordination and coordination.	Unit 4, Lesson 2	Unit 3, Lesson 6
L.1.7	Edit to correct errors in subject-verb or pronoun-antecedent agreement in more complicated situations (e.g., with compound subjects, interceding phrases, or collective nouns).	Unit 4, Lessons 3, 4	Unit 3, Lessons 8, 10
L.1.8	Edit to eliminate wordiness or awkward sentence construction.	Unit 6, Lesson 3	Unit 4, Lesson 2
L.1.9	Edit to ensure effective use of transitional words, conjunctive adverbs, and other words and phrases that support logic and clarity.	Unit 5, Lesson 3 Unit 6, Lesson 3	Unit 5, Lesson 5
Demonstrate command of the conventions of standard English capitalization and punctuation when writing.			
L.2.1	Edit to ensure correct use of capitalization (e.g., proper nouns, titles, and beginnings of sentences).	Unit 4, Lesson 7	Unit 4, Lesson 3
L.2.2	Edit to eliminate run-on sentences, fused sentences, or sentence fragments.	Unit 4, Lessons 2, 3	Unit 3, Lessons 4, 5
L.2.3	Edit to ensure correct use of apostrophes with possessive nouns.	Unit 4, Lesson 7	Unit 4, Lesson 6
L.2.4	Edit to ensure correct use of punctuation (e.g., commas in a series or in appositives and other non-essential elements, end marks, and appropriate punctuation for clause separation).	Unit 4, Lesson 4	Unit 3, Lesson 2 Unit 4, Lesson 4

Indicator Code	Science Indicator Description	Pre-HSE Science Course (NRP 7165)	GED Science Course (NRP 7167)
Comprehending Scientific Presentations			
SP.1.a	Understand and explain textual scientific presentations.	Unit 1, Lesson 3	Unit 1, Lesson 1 Unit 2, Lessons 1, 2, 3, 4, 5 Unit 3, Lessons 1, 2, 3 Unit 4, Lessons 1, 2, 3
SP.1.b	Determine the meaning of symbols, terms, and phrases as they are used in scientific presentations.	Unit 1, Lesson 5	Unit 1, Lessons 1, 2, 3, 4 Unit 2, Lessons 1, 2, 3, 4, 5 Unit 3, Lessons 1, 2, 3 Unit 4, Lessons 1, 2, 3
SP.1.c	Understand and explain a non-textual scientific presentation.	Unit 1, Lessons 3, 4	Unit 1, Lessons 3, 4 Unit 2, Lesson 3
Investigation Design (Experimental and Observational)			
SP.2.a	Identify possible sources of error and alter the design of an investigation to ameliorate that error.	Unit 1, Lesson 2	Unit 1, Lessons 1, 2
SP.2.b	Identify and refine hypotheses for scientific investigations.	Unit 1, Lesson 1	Unit 1, Lessons 1, 2
SP.2.c	Identify the strengths and weaknesses of one or more science investigation (i.e., experimental or observational) designs.	Unit 1, Lesson 2	Unit 1, Lessons 1, 2, 3 Unit 2, Lesson 1
SP.2.d	Design a science investigation.	Unit 1, Lesson 1	Unit 1, Lessons 1, 2
SP.2.e	Identify and interpret independent and dependent variables in scientific investigations.	Unit 1, Lesson 1	Unit 1, Lesson 1
Reasoning from Data			
SP.3.a	Cite specific textual evidence to support a finding or conclusion.	Unit 1, Lesson 2	Unit 1, Lessons 1, 3 Unit 2, Lessons 2, 4, 5 Unit 3, Lesson 3 Unit 4, Lesson 1
SP.3.b	Reason from data or evidence to a conclusion.	Unit 1, Lesson 4	Unit 1, Lessons 1, 3, 4 Unit 2, Lesson 2 Unit 3, Lessons 2, 3 Unit 4, Lessons 2, 3
SP.3.c	Make a prediction based upon data or evidence.	Unit 1, Lesson 4	Unit 1, Lessons 3, 4 Unit 2, Lessons 2, 4 Unit 3, Lesson 1 Unit 4, Lesson 1
SP.3.d	Use sampling techniques to answer scientific questions.	Unit 1, Lesson 2	Unit 1, Lessons 1, 3, 4 Unit 2, Lesson 1

Indicator Code	Science Indicator Description	Pre-HSE Science Course (NRP 7165)	GED Science Course (NRP 7167)
Evaluating Conclusions with Evidence			
SP.4.a	Evaluate whether a conclusion or theory is supported or challenged by particular data or evidence.	Unit 1, Lessons 2, 4	Unit 2, Lesson 4 Unit 4, Lesson 3
Working with Findings			
SP.5.a	Reconcile multiple findings, conclusions or theories.	Unit 1, Lesson 4	Unit 2, Lesson 4 Unit 4, Lesson 3
Expressing Scientific Information			
SP.6.a	Express scientific information or findings visually.	Unit 1, Lesson 3 Unit 4, Lessons 1, 6, 7	Unit 1, Lessons 1, 3, 4
SP.6.b	Express scientific information or findings numerically or symbolically.	Unit 1, Lesson 5 Unit 3, Lesson 10	Unit 3, Lesson 2
SP.6.c	Express scientific information or findings verbally.	Unit 1, Lesson 5	Unit 1, Lessons 1, 2, 3 Unit 2, Lessons 1, 3 Unit 3, Lessons 1, 2
Scientific Theories			
SP.7.a	Understand and apply science models, theories and processes.	Unit 2, Lesson 2 Unit 4, Lessons 1, 4	Unit 1, Lessons 1, 2, 3, 4 Unit 2, Lessons 1, 2, 4, 5 Unit 3, Lessons 1, 3 Unit 4, Lessons 1, 3
SP.7.b	Apply formulas from scientific theories.	Unit 3, Lessons 6, 7	Unit 3, Lesson 1
Statistics			
SP.8.a	Describe a data set statistically.	Unit 2, Lesson 4	Unit 1, Lesson 4 Unit 2, Lesson 5
SP.8.b	Use counting and permutations to solve science problems.	Unit 2, Lesson 4	Unit 2, Lesson 1 Unit 3, Lessons 1, 2
SP.8.c	Determine the probability of events.	Unit 2, Lesson 4	Unit 2, Lesson 2

Indicator Code	Social Studies Indicator Description	Pre-HSE Social Studies Course (NRP 7165)	GED Social Studies Course (NRP 7167)
SSP.1 Drawing Conclusions and Making Inferences			
SSP.1.a	Determine the details of what is explicitly stated in primary and secondary sources and make logical inferences or valid claims based on evidence.	Unit 3, Lesson 2	Unit 2, Lesson 2 Unit 3, Lesson 1
SSP.1.b	Cite or identify specific evidence to support inferences or analyses of primary and secondary sources, attending to the precise details of explanations or descriptions of a process, event, or concept.	Unit 3, Lessons 2, 3	Unit 2, Lessons 7, 9 Unit 3, Unit Opener
SSP.2 Determining Central Ideas, Hypotheses and Conclusions			
SSP.2.a	Determine the central ideas or information of a primary or secondary source document, corroborating or challenging conclusions with evidence.	Unit 2, Lessons 3, 4	Unit 2, Lesson 2
SSP.2.b	Describe people, places, environments, processes, and events, and the connections between and among them.	Unit 1, Lesson 7 Unit 2, Lessons 6, 8, 9, 10	Unit 1, Lessons 2, 3, 4 Unit 2, Lessons 4, 8
SSP.3 Analyzing Events and Ideas			
SSP.3.a	Identify the chronological structure of a historical narrative and sequence steps in a process.	Unit 1, Lessons 4, 7 Unit 2, Lessons 2, 8, 10 Unit 3, Lesson 2	Unit 2, Lessons 3, 6
SSP.3.b	Analyze in detail how events, processes, and ideas develop and interact in a written document; determine whether earlier events caused later ones or simply preceded them.	Unit 1, Lessons 6, 8	Unit 2, Lesson 6 Unit 3, Lesson 5
SSP.3.c	Analyze cause-and-effect relationships and multiple causation, including action by individuals, natural and societal processes, and the influence of ideas.	Unit 1, Lesson 8	Unit 1, Lesson 4 Unit 3, Lesson 6
SSP.3.d	Compare differing sets of ideas related to political, historical, economic, geographic, or societal contexts; evaluate the assumptions and implications inherent in differing positions.	Unit 2, Lesson 9 Unit 3, Lessons 9, 12	Unit 2, Lesson 8 Unit 3, Lesson 8
SSP.4 Interpreting Meaning of Symbols, Words and Phrases			
SSP.4.a	Determine the meaning of words and phrases as they are used in context, including vocabulary that describes historical, political, social, geographic, and economic aspects of social studies.	Unit 2, Lesson 7	Unit 1, Unit Opener Unit 2, Lesson 5 Unit 3, Lesson 1 Unit 4, Lesson 4
SSP.5 Analyzing Purpose and Point of View			
SSP.5.a	Identify aspects of a historical document that reveal an author's point of view or purpose (e.g., loaded language, inclusion or avoidance of particular facts).	Unit 3, Lessons 9, 12	Unit 2, Lessons 5, 6, 7 Unit 3, Lesson 2
SSP.5.b	Identify instances of bias or propagandizing.	Unit 3, Lessons 9, 10, 11	Unit 2, Lesson 9 Unit 3, Lesson 7
SSP.5.c	Analyze how a historical context shapes an author's point of view.	Unit 3, Lessons 9, 12	Unit 2, Lesson 10 Unit 3, Lesson 6
SSP.5.d	Evaluate the credibility of an author in historical and contemporary political discourse.	Unit 4, Lesson 5	Unit 2, Unit Opener

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SSP.6 Integrating Content Presented in Different Ways			
SSP.6.a	Integrate quantitative or technical analysis (e.g., charts, research data) with qualitative analysis in print or digital text.	Unit 3, Lesson 5 Unit 4, Lesson 3	Unit 1, Lesson 3 Unit 4, Unit Opener
SSP.6.b	Analyze information presented in a variety of maps, graphic organizers, tables, and charts; and in a variety of visual sources such as artifacts, photographs, political cartoons.	Unit 1, Lessons 1, 2, 3, 5 Unit 2, Lesson 3 Unit 3, Lessons 4, 7 Unit 4, Lesson 3	Unit 1, Unit Opener Unit 1, Lesson 1, 2, 3, 4 Unit 3, Lessons 3, 4, 9 Unit 4, Unit Opener
SSP.6.c	Translate quantitative information expressed in words in a text into visual form (e.g., table or chart); translate information expressed visually or mathematically into words.	Unit 3, Lesson 7 Unit 4, Lesson 3	Unit 1, Lesson 3 Unit 4, Lesson 3
SSP.7 Evaluating Reasoning and Evidence			
SSP.7.a	Distinguish among fact, opinion, and reasoned judgment in a primary or secondary source document.	Unit 2, Lesson 3 Unit 3, Lesson 1 Unit 4, Lesson 5	Unit 2, Unit Opener Unit 3, Lesson 6
SSP.7.b	Distinguish between unsupported claims and informed hypotheses grounded in social studies evidence.	Unit 2, Lessons 6, 7	Unit 2, Unit Opener Unit 3, Lesson 6
SSP.8 Analyzing Relationships Between Texts			
SSP.8.a	Compare treatments of the same social studies topic in various primary and secondary sources, noting discrepancies between and among the sources.	Unit 3, Lessons 2, 3	Unit 2, Lessons 2, 3, 5, 8, 9, 10
SSP.9 Writing Analytic Response to Source Texts			
SSP.9.a	Produce writing that develops the idea(s), claim(s) and/or argument(s) thoroughly and logically, with well-chosen examples, facts, or details from primary and secondary source documents.		Interpreting Sources: Unit 2, Lesson 10 Unit 3, Lesson 7, 8 Unit 4, Lesson 2
SSP.9.b	Produce writing that introduces the idea(s) or claim(s) clearly; creates an organization that logically sequences information; and maintains a coherent focus.		Interpreting Sources: Unit 2, Lesson 10 Unit 3, Lesson 7, 8 Unit 4, Lesson 2
SSP.9.c	Write clearly and demonstrate sufficient command of standard English conventions.		Interpreting Sources: Unit 2, Lesson 10 Unit 3, Lesson 7, 8 Unit 4, Lesson 2

Indicator Code	Social Studies Indicator Description	Pre-HSE Social Studies Course (NRP 7165)	GED Social Studies Course (NRP 7167)
SSP.10 Reading and Interpreting Graphs, Charts and Other Data Representation			
SSP.10.a	Interpret, use and create graphs (e.g., scatterplot, line, bar, circle) including proper labeling. Predict reasonable trends based on the data (e.g., do not extend beyond a reasonable limit).	Unit 4, Lessons 2, 3	Unit 4, Lesson 1
SSP.10.b	Represent data on two variables (dependent and independent) on a graph; analyze and communicate how the variables are related.	Unit 4, Lessons 2, 3	Unit 4, Lesson 3
SSP.10.c	Distinguish between correlation and causation.		Lesson 4, Unit Opener Unit 4, Lessons 2, 4
SSP.11 Measuring the Center of a Statistical Dataset			
SSP.11.a	Calculate the mean, median, mode, and range of a dataset.	Unit 4, Lesson 3	Unit 4, Unit Opener

Indicator Code	Quantitative Problem-Solving Assessment Targets Content Indicators	Pre-HSE Math Course (NRP 7165)	GED Math Course (NRP 7167)
Q.1 Apply number sense concepts, including ordering rational numbers, absolute value, multiples, factors, and exponents.			
Q.1.a	Order fractions and decimals, including on a number line.	Unit 1, Lesson 6	Unit 1, Lessons 1, 4
Q.1.b	Apply number properties involving multiples and factors, such as using the least common multiple, greatest common factor, or distributive property to rewrite numeric expressions.	Unit 1, Lesson 5	Unit 1, Lessons 1, 4
Q.1.c	Apply rules of exponents in numerical expressions with rational exponents to write equivalent expressions with rational exponents.	Unit 4, Lesson 1	Unit 3, Lesson 1
Q.1.d	Identify absolute value or a rational number as its distance from 0 on the number line and determine the distance between two rational numbers on the number line, including using the absolute value of their difference.	Unit 1, Lessons 4, 6	Unit 3, Lesson 2
Q.2 Add, subtract, multiply, divide, and use exponents and roots of rational, fraction and decimal numbers.			
Q.2.a	Perform addition, subtraction, multiplication, and division on rational numbers.	Unit 1, Lessons 4, 6, 7 Unit 2, Lesson 2 Unit 3, Lesson 1 Unit 4, Lesson 1 Unit 4, Lesson 1	Unit 1, Lessons 2, 3, 5
Q.2.b	Perform computations and write numerical expressions with squares and square roots of positive, rational numbers.	Unit 4, Lesson 1	Unit 3, Lesson 1
Q.2.c	Perform computations and write numerical expressions with cubes and cube roots of rational numbers.	Unit 4, Lesson 1	Unit 3, Lesson 1
Q.2.d	Determine when a numerical expression is undefined.		
Q.2.e	Solve one-step or multi-step arithmetic, real world problems involving the four operations with rational numbers, including those involving scientific notation.	Unit 1, Lesson 7 Unit 2, Lessons 1, 2 Unit 3, Lesson 1 Unit 4, Lesson 5 Unit 5, Lesson 5 Unit 6, Lesson 4	Unit 1, Lessons 1, 3, 5 Unit 3, Lesson 1
Q.3 Calculate and use ratios, percents and scale factors.			
Q.3.a	Compute unit rates. Examples include but are not limited to: unit pricing.	Unit 2, Lesson 1	Unit 1, Lesson 6
Q.3.b	Use scale factors to determine the magnitude of a size change. Convert between actual drawings and scale drawings.		Unit 1, Lesson 6
Q.3.c	Solve multiple-step arithmetic, real-world problems using ratios or proportions, including those that require converting units of measure.	Unit 2, Lesson 1	Unit 1, Lesson 6 Unit 2, Lessons 1, 2
Q.3.d	Solve two-step arithmetic, real-world problems involving percents. Examples include but are not limited to: simple interest, tax, markups and markdowns, gratuities and commissions, percent increase and decrease.	Unit 2, Lesson 2	Unit 1, Lesson 7

Indicator Code	Quantitative Problem-Solving Assessment Targets Content Indicators	Pre-HSE Math Course (NRP 7165)	GED Math Course (NRP 7167)
Q.4 Calculate dimensions, perimeter, circumference, and area of two-dimensional figures.			
Q.4.a	Compute the area and perimeter of triangles and rectangles. Determine side lengths of triangles and rectangles when given the area or perimeter.	Unit 5, Lessons 4, 5	Unit 4, Lesson 2
Q.4.b	Compute the area and circumference of circles. Determine the radius or diameter when given the area or circumference.	Unit 5, Lessons 4, 5	Unit 4, Lesson 3
Q.4.c	Compute the perimeter of a polygon. Given a geometric formula, compute the area of a polygon. Determine side lengths of the figure when given the perimeter or area.	Unit 5, Lessons 4, 5	Unit 4, Lesson 2
Q.4.d	Compute perimeter and area of 2-D composite geometric figures, which could include circles, given geometric formulas as needed.		Unit 4, Lesson 2
Q.4.e	Use the Pythagorean theorem to determine unknown side lengths in a right triangle		Unit 4, Lesson 6
Q.5 Calculate dimensions, surface area, and volume of three-dimensional figures.			
Q.5.a	When given geometric formulas, compute volume and surface area of rectangular prisms. Solve for side lengths or height, when given volume or surface area.	Unit 5, Lesson 5	Unit 4, Lessons 4, 5
Q.5.b	When given geometric formulas, compute volume and surface area of cylinders. Solve for height, radius, or diameter when given volume or surface area.	Unit 5, Lesson 5	Unit 4, Lessons 4, 5
Q.5.c	When given geometric formulas, compute volume and surface area of right prisms. Solve for side lengths or height when given volume or surface area.	Unit 5, Lesson 5	Unit 4, Lessons 4, 5
Q.5.d	When given geometric formulas, compute volume and surface area of right pyramids and cones. Solve for side lengths, height, radius, or diameter when given volume or surface area.	Unit 5, Lesson 5	Unit 4, Lessons 4, 5
Q.5.e	When given geometric formulas, compute volume and surface area of spheres. Solve for radius or diameter when given the surface area.	Unit 5, Lesson 5	Unit 4, Lessons 4, 5
Q.5.f	Compute surface area and volume composite 3-D geometric figures, given geometric formulas as needed.		Unit 4, Lessons 3, 4
Q.6 Interpret and create data displays.			
Q.6.a	Represent, display, and interpret categorical data in bar graphs, circle graphs,	Unit 6, Lesson 4	Unit 7, Lesson 1
Q.6.b	Represent, display, and interpret data involving one variable plots on the real number line including dot plots, histograms, and box plots	Unit 6, Lesson 4	Unit 7, Lesson 2
Q.6.c	Represent, display, and interpret data involving two variables in tables and the coordinate plane including scatter plots and graphs.	Unit 5, Lesson 2 Unit 6, Lesson 4	Unit 7, Lessons 1, 2
Q.7 Calculate and use mean, median, mode and weighted average.			
Q.7.a	Calculate the mean, median, mode, and range. Calculate a missing data value, given the average and all the missing data values but one, as well as calculating the average, given the frequency counts of all the data values, and calculating a weighted average.	Unit 7, Lessons 1, 2	Unit 7, Lesson 3

Indicator Code	Quantitative Problem-Solving Assessment Targets Content Indicators	Pre-HSE Math Course (NRP 7165)	GED Math Course (NRP 7167)
Q.8 Utilize counting techniques and determine probabilities.			
Q.8.a	Use counting techniques to solve problems and determine combinations and permutations.		Unit 7, Lesson 4
Q.8.b	Determine the probability of simple and compound events.		Unit 7, Lesson 5

Indicator Code	Algebraic Problem-Solving Assessment Targets Content Indicators	Pre-HSE Math Course (NRP 7165)	GED Math Course (NRP 7167)
A.1 Write, evaluate, and compute with expressions and polynomials.			
A.1.a	Add, subtract, factor, multiply and expand linear expressions with rational coefficients.	Unit 4, Lesson 1	Unit 3, Lesson 2
A.1.b	Evaluate linear expressions by substituting integers for unknown quantities.	Unit 4, Lesson 1	Unit 3, Lesson 2 Unit 6, Lesson 4
A.1.c	Write linear expressions as part of word-to-symbol translations or to represent common settings.	Unit 4, Lesson 1	Unit 3, Lessons 2, 6
A.1.d	Add, subtract, multiply polynomials, including multiplying two binomials, or divide factorable polynomials.	Unit 4, Lesson 1	Unit 6, Lessons 1, 2
A.1.e	Evaluate polynomial expressions by substituting integers for unknown quantities.	Unit 4, Lesson 1	Unit 3, Lesson 2 Unit 6, Lesson 4
A.1.f	Factor polynomial expressions.		Unit 6, Lessons 1, 2
A.1.g	Write polynomial expressions as part of word-to-symbol translations or to represent common settings.	Unit 4, Lesson 1	Unit 6, Lesson 3
A.1.h	Add, subtract, multiply and divide rational expressions.	Unit 4, Lesson 1	Unit 6, Lesson 4
A.1.i	Evaluate rational expressions by substituting integers for unknown quantities.	Unit 4, Lesson 1	Unit 3, Lesson 2 Unit 6, Lesson 4
A.1.j	Write rational expressions as part of word-to-symbol translations or to represent common settings.	Unit 4, Lesson 1	Unit 6, Lesson 3
A.2 Write, manipulate, and solve linear equations.			
A.2.a	Solve one-variable linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting terms or equations with coefficients represented by letters.	Unit 4, Lesson 2	Unit 3, Lessons 3, 6
A.2.b	Solve real-world problems involving linear equations.	Unit 4, Lesson 2	Unit 3, Lessons 3, 6
A.2.c	Write one-variable and multi-variable linear equations to represent context.	Unit 4, Lesson 2	Unit 3, Lessons 3, 6
A.2.d	Solve a system of two simultaneous linear equations by graphing, substitution, or linear combination. Solve real-world problems leading to a system of linear equations.		Unit 5, Lesson 5
A.3 Write, manipulate, solve, and graph linear inequalities.			
A.3.a	Solve linear inequalities in one variable with rational number coefficients.	Unit 4, Lesson 3	Unit 3, Lesson 5
A.3.b	Identify or graph the solution to a one variable linear inequality on a number line.	Unit 4, Lesson 4	Unit 3, Lesson 5

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A.3.c	Solve real-world problems involving inequalities.	Unit 4, Lesson 3	Unit 3, Lesson 5
A.3.d	Write linear inequalities in one variable to represent context.	Unit 4, Lesson 3	Unit 3, Lessons 2, 5, 6 Unit 5, Lesson 5 Unit 6, Lesson 3
A.4 Write, manipulate, and solve quadratic equations.			
A.4.a	Solve quadratic equations in one variable with rational coefficients and real solutions, using appropriate methods. (e.g., quadratic formula, completing the square, factoring, inspection).		Unit 6, Lesson 3
A.4.b	Write one-variable quadratic equations to represent context.		Unit 3, Lesson 5 Unit 6, Lesson 3
A.5 Connect and interpret graphs and functions.			
A.5.a	Locate points in the coordinate plane.	Unit 5, Lesson 2	Unit 5, Lesson 1
A.5.b	Determine the slope of a line from a graph, equation, or table.		Unit 5, Lesson 2
A.5.c	Interpret unit rate as the slope in a proportional relationship.		Unit 5, Lesson 2
A.5.d	Graph two-variable linear equations.	Unit 4, Lesson 4	Unit 5, Lesson 1
A.5.e	For a function that models a linear or nonlinear relationship between two quantities, interpret key features of graphs and tables in terms of quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior, and periodicity.		Unit 6, Lesson 5
A.6 Connect coordinates, lines, and equations.			
A.6.a	Write the equation of a line with a given slope through a given point.		Unit 5, Lesson 3
A.6.b	Write the equation of a line passing through two given distinct points.		Unit 5, Lesson 3
A.6.c	Use slope to identify parallel and perpendicular lines and to solve geometric problems.		Unit 5, Lesson 4
A.7 Compare, represent, and evaluate functions.			
A.7.a	Compare two different proportional relationships represented in different ways. Examples include but are not limited to: compare a distance-time graph to a distance-time equation to determine which of two moving objects has a greater speed.	Unit 6, Lesson 4	Unit 5, Lesson 5 Unit 7, Lesson 2
A.7.b	Represent or identify a function in a table or graph as having exactly one output (one element in the range) for each input (each element in the domain).		Unit 5, Lesson 5
A.7.c	Evaluate linear and quadratic functions for values in their domain when represented using function notation.		Unit 5, Lesson 5
A.7.d	Compare properties of two linear or quadratic functions each represented in a different way (algebraically in tables, graphically or by verbal descriptions). Examples include but are not limited to: given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.		Unit 5, Lesson 5 Unit 7, Lesson 2