



Pace Learning Systems

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CORRELATION

CASAS GOALS Series

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CASAS Goals Series – Reading and Math Correlation to Pace Learning Systems

CASAS Basic Skills Standards and CASAS Competencies can be found at <https://casas.org>

Pace Lesson Reference Key

Accelerated Learning Lab:

- Reading (R)
- Language (L)
- Writing (W)
- Writing Applications (Wc)
- Spelling (Sp)
- Basic Math (BM)
- Advanced Math (AM)
- Science (Sc)
- Social Studies (SS)

At Your Own Pace

Series:

- Reading (r)
- English (e)
- Math (m)

CASAS Basic Skills Content Standards – Reading (2016)

RDG1	Foundational Literacy	
1.1	Demonstrate understanding of the organization and basic features of print (e.g., reading from left to right, top to bottom, knowing that letters make words, and words make sentences), including reading simple handwriting.	
1.2	Identify similarities and differences in visual images (e.g., letters, numbers, symbols, shapes)	
1.3	Identify letters of the English alphabet – upper and lower case.	
1.4	Interpret common symbols (e.g., restroom signs, traffic signs, etc.)	
1.5	Read numbers commonly encountered in daily life (e.g., clock times, dates, phone numbers, street addresses, and money amounts).	
1.6	Demonstrate phonemic (sound units that form words) and phonological awareness, an understanding of spoken words and syllables (e.g., rhyming words, short/long vowels, blending phonemes to make new words). [RF2. A]	
1.7	Demonstrate understanding of and apply phonics and word analysis skills in decoding words. [RF3. A, B, C]	*Sp100 (2.2), Sp110 (2.8), Sp120(2.9), Sp130(3.3), Sp140(3.5), Sp150 (3.6)
1.8	Read common high-frequency words by sight (e.g., the, is, of, to, you). [RF3. A]	r100 (2.2), r105(2.4), e100(1.9)
1.9	Read with sufficient accuracy and fluency to support comprehension. [RF4. A, B, C]	Reading At Your Own Pace (various), Reading Accelerated Learning Lab (Various)

*Pace lessons are designed for self-paced instruction at requisite independent reading levels which ensure learner success. Lesson references in “Foundational Literacy” are measured at reading levels ranging from 1.9 (e100) to 3.6 (Sp150) (Flesch-Kincaid Reading Grade Level). These Pace lessons are recommended for students with CASAS Reading Scale Scores of 204 and higher. For more information on quantitative measures of text complexity of Pace titles, contact ctmassey@pacelearning.com. “CASAS” and CASAS assessments are © 2016 by CASAS. All rights reserved.

RGD2	Language and Vocabulary	
2.1	Interpret the conventions of standard English including punctuation (e.g., periods, appropriate placement of commas, quotation marks) and capitalization (e.g., at the beginning of a sentence, proper nouns). [L2. A, B, C, D, E]	e120, e300, e311, e312, e315, e320, e325, L600, L610, L620, L630, L640, L650, L660
2.2	Read and interpret high-frequency words, phrases, and abbreviations in everyday contexts (e.g., signs, ads, labels, forms). [L6. A, B] [R4. A]	R500, R535, R540
2.3	Interpret accurately a range of general academic (e.g., indicate, procedure, evidence), technical (e.g., phlebotomist), and domain-specific words and phrases (e.g., endangered species, peace treaty) in context, including collocations (e.g., count on, happen to). [L6. B, C, D, E] [R4. B, C, D, E]	r141, r142, R130, W240, W410, W420, L240, Science (Various) Social Studies (Various)
2.4	Interpret words that signal text organization (e.g., first... then...next, it's important that...), simple relationships (e.g., because, and), spatial and temporal relationships (e.g., before/ after, The former statement...), contrast, addition and other logical relationships (e.g., however, although, nevertheless, similarly, moreover, in addition). [L6. A, B, C, D, E]	e210, e225, r205, R210, R241, R242, L300, L320, W320, W330
2.5	Interpret roots, prefixes, and suffixes that are common (e.g., looks/ looked/ looking, unhappy, worker) or less common (e.g., conceive/ conception/ conceivable, impossible, employee) to determine the meaning of words. [L4. A, B, C, D, E]	r121, r122, r131, r132, Sp160 R101, R102, R103, R111, R112
2.6	Interpret meaning from word forms (e.g., plurals, possessives, comparative forms, tenses). [L1. A, B, C, D, E]	e100, e110, e115, e120 L100, L120, L130, L140, L640
2.7	Interpret nuances, connotative meaning of words, and figurative language (e.g., analogies, idioms, similes and metaphors) as used in the text. [L5. A, B, C] [R4. C, D, E]	r165, R130, R140 W420, R605
2.8	Interpret unknown and multiple-meaning words as used in the text, choosing from level-appropriate strategies (e.g., context clues). [L4. A, B, C, D, E] [R4. A, B, C, D, E]	r141, r142 R130, R135
2.9	Interpret sentence structure and grammar that is simple (e.g., statements, questions, negatives, adjectives modifying nouns, pronoun references) or complex (e.g., relative clauses, perfect tenses). [L1. A, B, C, D, E]	e105, e115, e200, e205, e210 L110, L130, L200, L220, W120, W140, W300, W320
2.10	Recognize and interpret how language is used in various contexts including speech reductions (e.g., gonna vs. going to), contractions, punctuation, register and dialects, precise choice of language. [L3. B, C, D]	L240, L330, L400, W230, W240, W410, W420, R260, R325
2.11	Determine or clarify meaning by consulting general and specialized reference materials (e.g., glossary, picture dictionary, learner dictionary, standard dictionary). [L4. B, C, D, E]	Workforce Development (lesson glossaries) L900, R400, R405, R410, R415
RDG3	Reading Comprehension Skills and Strategies Literal Comprehension (DOK 1) Text	
3.1	Interpret texts that are simple (e.g., short narratives, emails, basic consumer materials) or complex (e.g., textbook excerpts, academic articles, voting guides, employee handbooks, historical records). [R10] CASAS Reading Task Area 3*	r200, R535 *Reading Passages Science (Various) Social Studies (Various) R460, R465

*Passages in the Reading System range from 5.2 (F-K Reading Grade Level, 5th) in the 500s to 12.5 (12th Grade) in the 1200s. Passages 500s are appropriate for students who have successfully completed Reading At Your Own Pace or who have demonstrated appropriate independent reading levels on standardized assessments.

3.2	Interpret written instructions that are simple (e.g., follow a recipe) or complex (e.g., operating instructions, procedures in a scientific experiment). [R10] CASAS Reading Task Area 3*	R235, R440, R445 Sc 210, Sc211, Sc321 Reading Worksheets (Various) Science Worksheets (Various)
3.3	Interpret information in forms that are simple (e.g., appointment sign-in sheets, class registration) or complex (e.g., rental agreements, insurance forms, payroll statements). [R7. A, B, C] CASAS Reading Task Area 1*	R500, R505, R510, R515, R520, R530, L500, L510
3.4	Interpret information in measurement scales and diagrams that are simple (e.g., gas gauges, thermometers, measuring cups) or complex (e.g., Richter scale, electrical circuit diagrams). [R7. A, B, C] CASAS Reading Task Area 5*	R440, BM600, BM610, BM650, Sc210, Sc400, Sc410, Sc420, Sc430
3.5	Interpret information in a variety of formats including ones that are simple (e.g., signs, price tags, ads, product labels) or complex (e.g., prescription drug dosages and warnings). This does not include forms, charts, tables, graphs, maps, measurement scales and diagrams; these are covered in 3.1 – 3.5. [R7. A, B, C] CASAS Reading Task Area 4*	R500, R525, R530, R535, R315, R320
3.6	Glean important information about a text by previewing it (e.g., looking at key elements, such as the title, headings, visuals, captions, author’s name, and source). Relate the text to one’s own personal experience, as appropriate.	R201, R202, R460, R465, R470
3.7	Use the information learned by previewing a text or by reading parts of a text to predict information about the text (e.g., What is the text about? What will happen next in the text?).	R202, R210, R241, R242, R230
3.8	Identify the general meaning, subject matter, organization, or other content in a text by skimming.	R201
3.9	Locate and interpret specific information by scanning text features (e.g., boldface print, icons, headings, sidebars), items in an alphabetical, numeric, or other ordered listing (e.g., table of contents, department store directory, electronic menus) or using digital search tools (e.g., key words, hyperlinks). [R5. A, B]	R201, R202, R400, R460, R465
3.10	Identify the main idea of a simple text or the central ideas or themes of a complex text. [R2. A, B, C]	e215, e220, R221, R222, R223, R605, Reading Passages
3.11	Identify the key details and cite evidence from a text. [R1. A, B, C]	e215, e220, R221, R222, R223, R605, Reading Passages
3.12	Identify, describe or explain the connection and/or relationship between individuals, events or information in a text. [R3. A, B, C]	r205, r215, R210, R230, R241, R242
3.13	Identify the author’s point or purpose including what the author wants to answer, explain or describe. [R6. B]	R210, R260
3.14	Identify reasons or evidence an author gives to support points in a text and describe how those reasons or evidence support specific points. [R8. A, B]	R221, R222, R223, R251, R252, R260, W240
RDG4	Higher Order Reading Skills and Strategies (DOK 2+) Informational and Literary Text	
4.1	Determine a theme or central idea of a text and explain how it is supported and conveyed through particular details. Analyze in detail the development of the theme or central idea over the course of the text, including how it is shaped and refined by specific details. [R2. C, D, E]	R221, R222, R223, R625, R630, R635 Reading Passages
4.2	Summarize central ideas, concepts, and processes in a text. [R2. C, D, E]	R221, R222, R223, R202

4.3	Determine what texts say explicitly by comparing details from multiple sources or parts of a text. [R1. D, E]	R223, R620, R625, R460, R465, R470, SS351, SS471
4.4	Determine what a text says implicitly (e.g., make inferences, draw conclusions) and cite textual evidence. [R1. C, D, E]	R221, R223, R230 Reading Passages
4.5	Analyze how and why individuals, events, and ideas develop and interact over the course of a text, including time, cause/ effect, sequence (e.g., following multi-step directions). [R3. D, E]	R210, R230, R241, R242, R235
4.6	Use text features (e.g., boldface print, symbols) to locate key details and interpret how these features influence meaning. [R5. B]	R201, R460
4.7	Describe and analyze the overall structure and organization of a text (e.g., chronology, cause and effect, comparison and contrast, problem and solution). [R5. C, D, E]	R210, R230, R201, R221, R222
4.8	Analyze how the author's point of view, purpose, opinion, register, tone, and voice, including political or cultural perspective, shape the content and style of a text for its intended audience. [R6. C, D, E]	R251, R252, R260, R620
4.9	Explain, delineate, analyze, and evaluate the truthfulness, validity, credibility, relevance, and sufficiency of arguments, specific claims and supporting evidence in expository, academic or non-fiction text, including differentiating fact from opinion (e.g., advertising claims, news articles, case studies). [R8. C, D, E]	W230, W240, R251, R252, R260, R460, R465, R470, Sc100, Sc201, Sc210, Sc211
4.10	Integrate and analyze how two or more texts address similar or conflicting themes or topics in order to build knowledge, compare or contrast the approaches the author(s) takes, or identify where the texts agree or disagree on matters of fact or interpretation. [R9. C, D, E]	R251, R252, R260, R620, R460, R465, R470, R625, R635
4.11	Integrate, evaluate, and translate content presented in diverse media or formats (e.g., charts, graphs, photographs, videos, research data, equations) expressed visually, quantitatively, or in words. [R7. D, E]	R400, R460, R465, R470, R440, R445, Sc210, Sc400, Sc410, Sc420
RDG5	Higher Order Reading Skills and Strategies Literary Text Only	
5.1	Identify story elements including theme, setting, plot, character, conflict, and resolution in literary texts. [R2. C, D, E]	R600, R610
5.2	Determine characters' traits by what the characters convey about themselves in narration, dialogue, monologue, and soliloquy.	R605, R615
5.3	Analyze interactions between main and supporting characters in a literary text (e.g., internal and external conflicts, motivations) and explain the development of specific characters, ideas, and events.	R610, R615, R625, R630, R635
5.4	Trace an author's development of time and sequence, including the use of complex devices (e.g., foreshadowing, flashbacks); analyze the effectiveness of the structure used by the author	R610
5.5	Interpret and analyze the significance of literary devices (e.g., figurative language, imagery, allegory, symbolism), and the cumulative impact of specific word choices on meaning and tone. [R4. D, E]	R605, R610, R620
5.6	Analyze how different genres, cultures, and perspectives inform content, style, and theme in works of literature. [R6. E]	R620, R625, R630, R635 Science (Various) Social Studies (Various)

* SS351 discusses World War II from a world perspective, SS471 discusses World War II from an American perspective

CASAS Basic Skills Content Standards – Mathematics

M1.1 Read, write, order and compare rational numbers	
¹ M1.1.1 Associate numbers with quantities	
M1.1.2 Count with whole numbers	
M1.1.3 Count by 2s, 5s, and 10s up to 100	
M1.1.4 Recognize odd and even numbers	
M1.1.5 Understand the decimal place value system: read, write, order and compare whole and decimal numbers (e.g., $0.13 > 0.013$ because $13/100 > 13/1000$)	BM110, BM130
M1.1.6 Round off numbers to the nearest 10, 100, 1000 and/or to the nearest whole number, tenth, hundredth or thousandth according to the demands of the context	BM120
M1.1.7 Using place value, compose and decompose numbers with up to 5 digits and/or with three decimal places (e.g. $54.8 = 5 \times 10 + 4 \times 1 + 8 \times 0.1$)	BM100, BM110, BM160
M1.1.8 Interpret and use a fraction in context (e.g. as a portion of a whole area or set)	m200/BM200
M1.1.9 Find equivalent fractions and simplify fractions to lowest terms	m205/BM200
M1.1.10 Use common fractions to estimate the relationship between two quantities (e.g., $31/179$ is close to $1/6$)	BM210
M1.1.11 Convert between mixed numbers and improper fractions	m215, m220 BM200
M1.1.12 Use common fractions and their decimal equivalents interchangeably	BM300
M1.1.13 Read, write, order and compare positive and negative real numbers (integers, decimals, and fractions)	AM100
M1.1.14 Interpret and use scientific notation	AM130
M1.2 Demonstrate understanding of the operations of addition and subtraction, their relation to each other, and their application in solving problems with rational numbers	
M1.2.1 Mentally add and subtract positive whole numbers less than 20	BM140²
M1.2.2 Add and subtract positive multi-digit numbers, including decimal numbers	BM140, BM150
M1.2.3 Recognize when a problem situation requires addition or subtraction with multi-digit positive integers and decimal numbers, carry out the computation and interpret the answer in context	BM190
M1.2.4 Use the inverse relationship between addition and subtraction to write problem statements and to check computation (e.g., add back to check subtraction)	BM140, BM150
M1.2.5 Use the commutative property of addition to restate problems (e.g., $34.2 + 6 = 6 + 34.2$) and recognize the proper order to write subtraction problems and enter them into a calculator.	BM140, BM150, AM310, AM520
M1.2.6 Add and subtract fractions and mixed numbers including those with unlike denominators	BM220, BM230

¹ See the Individualized Reading Instructional System (IRIS) for objectives M1.1.1, M1.1.2, M1.1.3, and M1.1.4

² BM 140, 150, 160, and 170 are associated with Addition, Subtraction, Multiplication, and Division Flashcards.

M1.2.7 Recognize when a problem situation requires adding and/or subtracting with fractions and mixed numbers, carry out the computation and interpret the answer in context	BM260
M1.2.8 Use estimation strategies to determine reasonable answers to addition and subtraction problems involving integers, decimal numbers and fractions	BM500
M1.2.9 Express the result of adding and subtracting to the level of precision indicated by the problem (e.g., as in measurements)	BM500, BM620
M1.3 Demonstrate understanding of the operations of multiplication and division, their relation to each other and their application in solving problems with rational numbers.	
M1.3.1 Mentally double all integers to 20 and halve even integers to 20	BM160, BM170
M1.3.2 Know multiplication facts for integers through 12 and recognize their perfect squares	BM160
M1.3.3 Mentally multiply and divide numbers by 10, 100, 1000	BM160
M1.3.4 Identify integers that are multiples of 2, 3, 4, 5, or 10	BM160
M1.3.5 Find factors of whole numbers to 100 (i.e. 36 is divisible by 1,2,3,4,6,9,12,18 and 37 is prime)	BM200
M1.3.6 Recognize when a problem situation requires multiplying and/or dividing with multi-digit positive integers and decimal numbers, carry out the computation accurately and interpret the answer in context	BM190
M1.3.7 Use the inverse relationship of multiplication and division to write problem statements and to check a calculation (i.e. multiply back to check division)	BM160, BM170, BM250
M1.3.8 Express the result of multiplying and dividing to the level of precision indicated by the problem	BM160, BM180, BM500
M1.3.9 Use the context to determine whether the answer to a division problem should be rounded off or if the remainder should be expressed as a fraction. (e.g. currency contexts usually do not use fractions)	BM120, BM180, BM500, BM540, BM550
M1.3.10 Use fractional notation to indicate division (i.e., $6 \div 11 = \frac{6}{11}$; $12 \div 4 = 12 \times \frac{1}{4}$)	BM200
M1.3.11 Find fractional parts of whole numbers and/or decimal numbers. (e.g. $\frac{1}{4}$ of the \$8.3 million budget)	BM110, BM120, BM200
M1.3.12 Recognize when a problem situation requires multiplying and/or dividing with fractions and mixed numbers, carry out the computation and interpret the answer in context	BM260
M1.3.13 Use estimation strategies to determine reasonable answers to multiplication and division problems involving integers, decimal numbers and fractions (i.e., rounding to nearest multiple, benchmark fractions, etc.)	BM120, BM500
M1.3.14 Use the commutative property of multiplication to restate problems (e.g., $20 \times 0.25 = \frac{1}{4} \times 20$) and recognize the order to write a division problem and enter it into a calculator	BM160, BM170, AM310, AM520
M1.3.15 Use the distributive property of multiplication over addition (e.g., $4(136) = 4(100 + 30 + 6)$)	AM170, AM310
M1.3.16 Use exponential notation to indicate repeated multiplication as in squaring and cubing	AM130
M1.3.17 Read, write, and interpret the radical sign ($\sqrt{\quad}$) for square roots and ($\sqrt[3]{\quad}$) for cube roots	AM140

M1.4 Understand the meaning of ratio, proportion and percent and use them to solve problems	
M1.4.1 Recognize comparisons between quantities in situations that can be expressed as a ratio (e.g., he makes 3 out of 5 free throws) and those that can't (e.g., their final score, 11, was 4 more than the opponent's score.)	BM410
M1.4.2 Write and solve proportions for situations where two ratios are equal (e.g. currency conversion)	BM410
M1.4.3 Find the percent equivalents to fractions and decimals	BM300, BM310
M1.4.4 Know the percent equivalent to common benchmark fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{10}$, $\frac{1}{5}$, etc) and use them interchangeably for solving problems	BM300, BM310
M1.4.5 Mentally find 10% and/or 1% of an integer or decimal number	BM310
M1.4.6 Estimate percentages of numbers by using benchmark percents (10%, 25%, 50%) or combinations of them (e.g., 31% of 89 \approx 3(10% of 90) = 27)	BM310, BM500
M1.4.7 Calculate a missing value from a percent relationship – the percentage, the percent, or the base – using paper and pencil or a calculator	BM400
M1.4.8 Understand and solve problems using percents greater than 100% and less than 1%	BM400
M1.4.9 Calculate percent of change (increase or decrease) in a variety of situations, including those involving money	BM400, BM550/BM560/BM570
M1.5 Use strategies and tools to solve problems.	
M1.5.1 Determine when and how to split up a problem into simpler parts	BM190, BM430
M1.5.2 Apply strategies and results from simpler problems to more complex problems	BM190, BM260, BM430, BM580
M1.5.3 Use a calculator when appropriate	AM510, AM520
M2 Algebra	
M2.1 Find structure and patterns in arithmetic number sequences and contextual situations	
M2.1.1 Recognize the identity, commutative, associative and distributive properties for addition and multiplication as they apply in arithmetic procedures	BM140, BM150, BM160, BM170, AM310
M2.1.2 Use tables and algebraic expressions to generalize recurring numeric patterns (e.g .find the rule) and in contextual situations (e.g., seating at different-sized banquet tables)	
M2.1.3 Find the nth term in the sequence in a functional relationship and predict how changes in one quantity will affect another	
M2.1.4 Apply the correct order of operations	AM170
M2.2 Use variables, simplify expressions and solve equations	
M2.2.1 Use notational conventions such as parentheses and the various ways of representing multiplication	AM110, AM150, AM170
M2.2.2 Interpret symbols $<$, $>$, \approx and use them to express number relationships	AM100
M2.2.3 Recognize and interpret the different meanings and uses of variables ($2x + 1 = 7$; $y = 2x + 1$; $A = 1 \times w$; $a + -a = 0$)	AM150
M2.2.4 Evaluate expressions that include unknowns by substituting specific values for variables.	BM580 AM220, AM240

M2.2.5 Use the distributive property and combine like terms to simplify an expression ($5x + 3y - 2x = 3x + 3y$) and to factor ($3x + 3y = 3(x + y)$)	AM300, AM310
M2.2.6 Apply the commutative and associative properties of addition and multiplication to rewrite expressions	AM300, AM310
M2.2.7 Add, subtract, multiply and divide polynomial expressions	AM400, AM410, AM420, AM430
M2.2.8 Solve simple one-step equations with unknowns (e.g., $n - 7 = 9$; $3x = 24$)	AM320
M2.2.9 Use inverse operations and properties of equality to justify steps used in simplifying and solving more complex linear equations.	AM150, AM160, AM170, AM300, AM310, AM320, AM330
M2.2.10 Solve problems involving life-skill-related and technical formulas (e.g., units x price = cost; $d = r \times t$; $V = l \times R$)	BM540, BM550, BM560, BM570, BM580, AM220, AM230, AM240
2.2.11 Use substitution to check the solution of an equation	AM300
M2.2.12 Solve inequalities	AM340
M2.2.13 Solve systems of linear equations	AM390
M2.2.14 Apply the Pythagorean theorem	AM271
M2.2.15 Solve quadratic equations	AM440
M2.3 Model mathematical relationships (particularly functional relationships) found in context using words, tables, graphs, as well as algebraic expressions and equations	
M2.3.1 Interpret and write expressions and equations for simple contextual math situations	AM300
M2.3.2 Place positive and negative numbers on a number line, and relate them to direction and change	AM100
M2.3.3 Add, subtract, multiply and divide positive and negative numbers	AM110, AM120
M2.3.4 Use absolute value in contextual situations emphasizing a number's magnitude	
M2.3.5 Interpret and write expressions and equations representing contextual situations including those that involve fractions, decimals, percents and negative numbers	BM190, BM260, BM560, BM580, AM300
M2.3.6 Generate a table of values from an equation in two variables	
M2.3.7 Demonstrate understanding of the Cartesian coordinate system by locating and plotting points (x,y) and creating a coordinate plane by drawing the axes and establishing a scale	AM350
M2.3.8 Determine the slope of a line and relate it to the rate of change in one quantity with respect to the other	AM360
M2.3.9 Use a graph to answer questions about functional relationships between independent and dependent variables	BM510 Sc211, AM370, AM380
M2.3.10 Write the equation of a line given 2 points, or a slope and a single point	AM350, AM360, AM370, AM380
M2.3.11 Plot more than one equation on the same plane and find their intersections	AM350, AM360, AM370, AM380, AM390
M2.3.12 Graph a linear function	AM350, AM360, AM370
M2.3.13 Graph non-linear functions (quadratic, rational, exponential) and compare rates of change	

M2.3.14 Make graphs of direct and indirect proportions from contextual situations with attention to the domain and range of each	
M2.3.15 Interpret algebraic concepts and terminology used at the secondary level to solve computationally and conceptually challenging multistep problems	AM150, AM160, AM170, AM300, AM310, AM320, AM330, AM450
M3 Geometry	
M3.1 Recognize, identify and describe the attributes of geometric shapes and use them in solving problems	
M3.1.1 Identify lines of symmetry in two-dimensional figures	AM210
M3.1.2 Draw two-dimensional shapes with specific dimensions	AM220
M3.1.3 Identify and describe specific types of triangles based on their properties (e.g. : right, acute, scalene, isosceles, equilateral)	AM270, AM271
M3.1.4 Recognize angles of a triangle have a sum of 180 degrees and use accordingly	AM270
M3.1.5 Identify and describe specific types of quadrilaterals based on their properties (e.g. rectangle, square, parallelogram, rhombus)	AM200
M3.1.6 Recognize angles of a quadrilateral have a sum of 360 degrees and use accordingly	
M3.1.7 Identify polygons of various types	AM200
M3.1.8 Identify elements of a circle: center, radius, diameter, arc, chord, sector	AM230
M3.1.9 Identify common 3-d shapes of various types	AM200
M3.1.10 Interpret concepts of similarity, and identify figures that are similar or congruent	AM272
M3.1.11 Use concepts and attributes of geometric shapes to find unknown dimensions in figures and applications	AM220, AM230, AM240, AM270, AM271, AM272
M3.2 Recognize, identify, describe and reason about lines and angles in two dimensions	
M3.2.1 Identify parallel, perpendicular and intersecting lines	AM200
M3.2.2 Describe characteristics of angles formed by two intersecting lines, including complementary and supplementary angles	AM200, AM270
M3.2.3 Describe characteristics of angles formed by a transversal intersecting parallel lines	AM270
M3.2.4 Demonstrate understanding of the 360-degree system of measuring angles and rotation	AM205, AM270
M3.2.5 Use benchmark angles of 45, 90 and 180 degrees to estimate the size of angles	
M3.2.6 Identify rotations of 90, 180, 270 and 360 degrees as $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, full	
M3.2.7 Identify angles as right, acute, obtuse	AM200
M3.2.8 Measure or draw an angle using a protractor	AM205
M3.2.9 Use reason to determine the size of unknown angles in complex drawings	AM270, AM271, AM272
M3.3 Use spatial relationships to interpret two and three-dimensional drawings and figures	
M3.3.1 Use the four main (N, S, E, W) and secondary (i.e. NW) compass directions for spatial orientation.	R451/SS100
M3.3.2 Use a map with a coordinate grid (e.g., C5)	R451/SS100 AM350

M3.3.3 Enlarge or reduce similar figures, keeping them proportional	AM260
M3.3.4 Combine, divide, rotate, reconfigure or transform shapes to alter figures and change their position on a coordinate grid	AM210, AM450
M3.3.5 Locate or position items in a two-dimensional coordinate system	AM350
M3.3.6 Recognize or create a three-dimensional object from two-dimensional representations (e.g. follow a pattern)	
M3.3.7 Recognize and draw two-dimensional views of three-dimensional objects from different perspectives	
M4.1 Use tools and apply estimation in measuring	
M4.1.1 Identify and use the appropriate units, instruments and techniques for measurement tasks	Sc110 BM600, BM610, BM640, BM650
M4.1.2 Read and use linear scales: a ruler, tape measure, metric rule, thermometer	BM640, BM650
M4.1.3 Read temperature from thermometers in degrees F/C	BM650
M4.1.4 Read and use analog scales: clocks, meters, gauges, (e.g. read to nearest lb., Kg, ½ lb., ½ Kg etc.)	BM650
M4.1.5 Read and use digital scales: digital clocks, odometers	e325 m305
M4.1.6 Read and use various indicators of time (e.g, place dates on time line, interpret numeric representations, compare 12- 24 hour clocks)	e325 m305 Sc610
M4.1.7 Use non-standard measurement methods (e.g., using an object as a measure)	
M4.1.8 Compare the measure of one object to another (this is about 3 times as long as that; about 6 of these will fit in there)	
M4.1.9 Use specialized measurement tools in contextual situations	BM640, BM650
M4.1.10 Make rough-estimate approximations of measurements	BM500, BM640 AM250
M4.1.11 Recognize level of accuracy required in a given measurement situation in terms of precision, rounding, etc.	BM640 Sc110 AM250
M4.2 Work fluently within measurement systems and use general equivalencies between them	
M4.2.1 Calculate with and convert between customary US units of linear measurement: inches, feet, yards, miles	BM600
M4.2.2 Calculate with and convert between metric units of linear measurement: meters, centimeters, millimeters, kilometers	BM610
M4.2.3 Estimate equivalents between customary US and metric units of linear measure	BM500, BM600, BM610, BM620
M4.2.4 Compare linear measurements, including in decimal notation (e.g., tolerances)	
M4.2.5 Calculate with and convert between customary US units of weight; ounces, pounds, tons	BM600
M4.2.6 Calculate with and convert between metric units of weight: grams, kilograms, milligrams	BM610
M4.2.7 Estimate equivalents between customary US and metric units of weight	BM500, BM600, BM610, BM620

M4.2.8 Calculate with and convert between customary US units of capacity: fluid ounces, cups, pints, quarts, gallons	BM600
M4.2.9 Calculate with and convert between metric units of capacity: liters, milliliters	BM610
M4.2.10 Estimate equivalents between customary US and metric units of capacity	BM500, BM600, BM610, BM620
M4.2.11 Calculate with and compare temperatures, including those below zero	BM130 AM100
M4.2.12 Estimate equivalents between Fahrenheit and Celsius temperatures	BM500 Sc110
M4.2.13 Calculate with and convert between units of time: seconds, minutes, hours, days, months, years	BM630
M4.2.14 Use decimal placement and metric prefixes to convert like units: for example; mm, cm, m or mg, g, kg	BM130, BM600, BM610
M4.3 Calculate the measures of 2 and 3 dimensional figures.	
M4.3.1 Demonstrate understanding of the concept of two and three-dimensional measurements, and square and cubic units	AM220, AM240
M4.3.2 Calculate perimeter of rectangles and other common figures	AM220, AM230
M4.3.3 Calculate circumference of a circle, using a given formula	AM230
M4.3.4 Calculate area of rectangles and other common figures, using a given formula	AM220
M4.3.5 Estimate area of curved shapes	AM230, AM250
M4.3.6 Calculate volume and surface area of rectangular and other common shapes, using a given formula	AM240
M4.3.7 Calculate area or volume of irregular or composite shapes by dividing the figure into parts	AM240
M4.3.8 Interpret the exponential relationship of linear measure, area and volume (ft, sq ft, cu ft)	AM220, AM240
M4.3.9 Apply measurement in 3-d scale modeling	
M4.4 Use proportional reasoning to measure indirectly (scale drawings)	
M4.4.1 Interpret scale drawings (blueprints, maps)	AM260, R451, R452
M4.4.2 Interpret and use proportions in solving problems involving dimensions or scale	AM260
M4.4.3 Plan linear spacing in a design (e.g., the arrangement of shelves to fit in a cabinet)	
M4.4.4 Plan a layout (e.g., how many pieces of a specific shape can fit in a space)	
M4.5 Use relationships between measures to analyze change (rates)	
M4.5.1 Interpret, calculate and apply rates involving time, such as velocity (e.g., mi/hr, ft/sec, m/sec), frequency (e.g., calls/hr), consumption (e.g., cal/day, Kw/hr), flow (e.g., gal/min), change (e.g., degrees/min, inches/year)	BM410, BM570, BM580
M4.5.2 Interpret, calculate and apply rates (cents/min, \$/sq. ft., mi/gal)	BM410, BM540, BM570, BM580
M4.5.3 Use averaging in calculating rates (average speed is?)	BM440, BM580
M4.5.4 Demonstrate understanding and solve problems involving the interrelation of distance, time and speed	BM580
M4.5.5 Estimate time, distance and speed in travel situations	BM500, BM580
M4.5.6 Estimate equivalents between mph and km/h	

M5 Statistics, Data Analysis and Probability	
M5.1 Collect, organize and display data	
M5.1.1 Identify, count and extract relevant data in lists, tables and charts	BM520
M5.1.2 Collect, label, sort and order numerical information for a particular purpose (e.g., to count and list stock, keep a log, construct a schedule)	BM520
M5.1.3 Use a tally to record numerical information	
M5.1.4 Use or construct a table to record and present numerical information	BM520
M5.1.5 Use or construct a table that provides for calculation of data (e.g., units \times price; totals, subtotals)	BM520
M5.1.6 Construct a graph or visual representation of data	
M5.1.7 Present data in different interpretations (e.g., as percentages, difference, change)	BM450, BM510 Sc110
M5.1.8 Demonstrate how selection and presentation of data can be oriented for audience and purpose and can influence perceptions and conclusions (e.g. changing the scale on the graph can change the perceived message)	Sc211, BM510
M5.2 Interpret and analyze data from representations of a data set	
M5.2.1 Extract and compare information from scatterplots and pictographs, as well as bar, circle and line graphs	BM510
M5.2.2 Compare information from multiple plottings on the same graph	BM510
M5.2.3 Find summary statistics of a data set, including the mean, median, mode and range and determine how changes in the extreme values affect each of them.	BM440
M5.2.4 Demonstrate how the spread of data is a factor in determining whether mean or median should be used as a measure of central tendency	BM440
M5.2.5 Interpret the language of distributions in statistics (e.g. percentiles, quartiles, standard dev) and use it to describe and communicate data	
M5.2.6 Make simple generalizations about a data set, including recognizing clusters, more/less contrasts, and trends	BM510, Sc100
M5.2.7 Compare different samples or groupings (e.g., age, gender) in a data set, or compare individual pieces of data to an overall set or average	BM440, BM450 Sc211, Sc220
M5.2.8 Express data relationships in terms of ratios, fractions or percent (e.g., 3 to 1 ratio; 3 out of 4; 75%)	BM200, BM400, BM410
M5.2.9 Make observations, evaluate arguments, and draw conclusions based on statistical reasoning, recognizing the distinction between causation and correlation	
M5.2.10 Identify constraints to extending data to make predictions	Sc110, Sc210, Sc211 BM450
M5.2.11 Use computer programs to assist in compiling and analyzing data	
M5.2.12 Recognize when data sets can be viably compared and when they cannot	
M5.2.13 Interpret the concepts and implications of sampling and randomization in surveys	BM450 Sc211

M5.3 Use the laws of probability to predict the likelihood of outcomes	
M5.3.1 Find all the possible outcomes (sample space) by systematically figuring the possible combinations and/or permutations of a number of elements in practical situations	BM420, BM430
M5.3.2 Determine the probability of certain simple events (e.g., in the results of tossing a coin or rolling a die) and express the likelihood of an occurrence as a ratio fraction or a percent	BM420, BM310
M5.3.3 Identify possible outcomes involving compound events and determine the probability of their occurrence by considering whether the events are independent (e.g., rolling one die multiple times) or conditional (choosing 2 aces from a deck of cards) events	BM420, BM310
M5.3.4 Apply the rules of probability to real-world events (e.g., risk of injury when not wearing seat belts), recognizing the importance of assumptions of randomness and independence of attributes when reading media reports	

CASAS Competencies – Essential Life and Work Skills

0. Basic Communication	
0.1 Communicate in interpersonal interactions	
0.1.1 Identify or use appropriate non-verbal behavior (e.g., handshaking)	WF360, WF440 LS21
0.1.2 Understand or use appropriate language or informational purposes (e.g., to identify, describe, ask for information, state needs, agree or disagree)	LS22, LS26 WF320, WF340,WF370 R260
0.1.3 Understand or use appropriate language to influence or persuade (e.g., to caution, advise, persuade, negotiate)	R260 W240
0.1.4 Understand or use appropriate language in general social situations (e.g., to greet, introduce, thank, apologize)	LS21 WF440, WF360
0.1.5 Interact effectively in the classroom	R235 LS18,LS19,LS21, LS23
0.1.6 Clarify or request clarification	R235 LS18, LS21, LS23 WF440
0.1.7 Understand, follow or give instructions, including commands and polite requests	LS22, LS23, LS19 R235 L300 WF430
0.1.8 Understand or use appropriate language to express emotions and states of being (e.g.,happy, hungry, upset)	LS4 ,LS6
0.2 Communicate regarding personal information	
0.2.1 Respond appropriately to common personal information questions	WF350,WF360,WF370 LS21 R500
0.2.2 Complete a personal information form	R500, R505, R510, R515, R520, R525, WF350 L500, L510, L520
0.2.3 Interpret or write a personal note, invitation, or letter	L400, L330 WF380 Wc.1.2
0.2.4 Converse about daily and leisure activities and personal interests	WF310 LS9, LS21
1. Consumer Economics	
1.1 Use measurement and money	
1.1.1 Interpret recipes	R220, R305, R235 BM600
1.1.2 See 6.0 Math, and Math Content Standards	1.1.2 See 6.0 Math, and Math Content Standards
1.1.3 See 2.2.5	1.1.3 See 2.2.5
1.1.4 Interpret, use and compute measurement for consumer-related purposes	BM600, BM610, BM620
1.1.5 See 2.3.3, 3.6.3, 6.0 Math, and Math Content Standards	1.1.5 See 2.3.3, 3.6.3, 6.0 Math, and Math Content Standards
1.1.6 Count, convert, and use coins andcurrency, and recognize symbols such as (\$) and (.)	R315, BM530

1.1.7 Identify product containers and related units of measure	
1.1.8 See 6.0 Math, and Math Content Standards	1.1.8 See 6.0 Math, and Math Content Standards
1.1.9 See 1.2.1	1.1.9 See 1.2.1
1.2 Use information to identify and purchase goods and services	
1.2.1 Interpret advertisements, labels, charts, and price tags in selecting goods and services	BM520, BM540 R435, R530, R535
1.2.2 Compare price, quality, and product information to determine the best buys for goods and services	BM540
1.2.3 Compute discounts	BM550
1.2.4 Interpret or compute unit pricing	BM540
1.2.5 Interpret letters, articles, and information about consumer-related topics	R223, R435
1.2.6 Identify places to purchase goods and services, including the Internet	
1.2.7 Interpret information or directions to locate merchandise	R540, R235 LS22
1.2.8 Identify common food items	
1.2.9 Identify common articles of clothing	
1.3 Understand methods and procedures used to purchase goods and services	
1.3.1 Identify, compare and use methods for purchasing goods and services, including online purchasing	
1.3.2 Interpret credit applications	R515 L520 BM560
1.3.3 Make returns, exchanges, and customer service requests	
1.3.4 Use catalogs and order forms to purchase goods and services	
1.3.5 Use coupons to purchase goods and services	
1.3.6 Use automated devices (e.g., ticket machines, self-checkout) to make purchases and payments	
1.3.7 See 1.2.7	1.3.7 See 1.2.7
1.3.8 See 1.2.8	1.3.8 See 1.2.8
1.3.9 See 1.2.9	1.3.9 See 1.2.9
1.4 Understand methods and procedures to obtain housing and related services	
1.4.1 Identify different kinds of housing, areas of the home, and common household items	
1.4.2 Select appropriate housing by reading ads, signs, and other information, and by making inquiries	R435, R540
1.4.3 Interpret lease and rental documents	R525
1.4.4 Interpret information to obtain, maintain, or cancel housing utilities	
1.4.5 Interpret information about tenant and landlord rights and obligations	R525 L520
1.4.6 Interpret information about purchasing a home, including loans and insurance	R515
1.4.7 Communicate maintenance needs and housing problems to a landlord or property manager	R525 Wc1.8, Wc2.4, Wc2.7, Wc3.6
1.4.8 Recognize home theft and fire prevention measures	

1.5 Understand how to manage household finances	
1.5.1 Interpret information about personal and family budgets	
1.5.2 Consider need, affordability, and long-term implications in making purchases	
1.5.3 Interpret bills	
1.6 Understand consumer protection measures	
1.6.1 Interpret food packaging labels such as expiration dates (see also 1.2.1, 3.5.1)	R535
1.6.2 Identify consumer protection resources concerning business practices and solicitations	
1.6.3 Identify procedures the consumer can follow if merchandise or service is unsatisfactory	
1.6.4 Interpret sales receipts	
1.6.5 Identify and interpret advertising, offers, junk mail and other marketing materials, including claims and disclaimers	R252, R260, R435
1.6.6 Interpret information about consumer privacy rights and policies	
1.6.7 Identify risks such as identity theft and ways to safeguard personal and financial information	
1.7 Understand procedures for the care, maintenance, and use of personal possessions	
1.7.1 Interpret product guarantees and warranties	
1.7.2 Interpret clothing care labels	
1.7.3 Interpret operating instructions, directions, or labels for consumer products (see also 3.4.1)	R535, R235
1.7.4 Interpret maintenance procedures for household appliances and personal possessions	
1.7.5 Interpret information to obtain repairs	
1.7.6 Place a notice or ad to sell items	R435
1.8 Demonstrate financial literacy skills	
1.8.1 Demonstrate ability to use and manage savings and checking accounts, including services such as ATMs, direct deposit, debit card purchasing, and online banking	
1.8.2 See 1.8.1	
1.8.3 Interpret information about types of bank accounts, including fees and interest	R515 L520
1.8.4 Interpret information about the types of loans available through lending institutions	
1.8.5 Interpret information about investments and financial planning, including type and purpose of investments	
1.8.6 Interpret information about credit and debt, including interest rates, payment terms and credit reports (see also 1.3.2)	R515 BM560
1.8.7 Identify and use services to send money or exchange currency	
1.9 Understand how to purchase and maintain an automobile and interpret driving regulations	
1.9.1 Interpret highway and traffic signs and signals, including parking information (see also 2.2.2)	R540
1.9.2 Identify driving regulations and procedures to obtain a driver's license	
1.9.3 Compute mileage and gasoline consumption	BM580

1.9.4 See 2.2.5	1.9.4 See 2.2.5
1.9.5 Interpret information related to the selection and purchase of a car	
1.9.6 Interpret information related to automobile maintenance	
1.9.7 Identify procedures and report information regarding automobile accidents and emergencies	
1.9.8 Interpret information about automobile insurance	
1.9.9 Identify types of vehicles and basic car parts and features, including safety equipment	
2. Community Resources	
2.1 Use the telephone and similar communication systems	
2.1.1 Use a telephone directory	R400
2.1.2 Identify emergency numbers and place emergency calls (see also 2.5.1)	
2.1.3 See 2.3.5	2.1.3 See 2.3.5
2.1.4 Interpret information related to telephone, cable, and other communications services, including plans, rates and billing	
2.1.5 Dropped	
2.1.6 Interpret information about using a pay telephone and phone cards	
2.1.7 Take, interpret, and leave telephone messages	L330 WF440
2.1.8 Use a telephone or similar device to make and receive calls and for other functions	
2.2 Understand how to locate and use different types of transportation and interpret travel related information	
2.2.1 Ask for, give, follow, or clarify directions to a place or location, including reading signs	R540, R235 LS222, LS23
2.2.2 Recognize and use signs related to public transportation (see also 1.9.1)	R530, R540
2.2.3 Identify or use different types of transportation in the community, and interpret traffic information	
2.2.4 Interpret transportation schedules, fares, and payment procedures	R530 BM520
2.2.5 Use maps relating to travel needs, including Internet-based map systems	R451, R452 SS100
2.2.6 Identify and interpret documentation requirements for travel, including applying for documents and completing forms	R500, R505, R525, R530 L510
2.2.7 Interpret and follow security policies and procedures, and regulations related to travel and transport	
2.3 Understand concepts of time and weather	
2.3.1 Interpret clock time	R300, R530 L660
2.3.2 Identify the months of the year and the days of the week	R300 L700
2.3.3 Interpret information about weather conditions	Sc621
2.3.4 Interpret and write dates	R500 L500
2.3.5 Interpret information about time zones	R300

2.4 Use mailing and shipping services	
2.4.1 Address items for mailing	L400
2.4.2 Identify options for mailing and shipping, and interpret rates and types of services	
2.4.3 Interpret postal service and other forms associated with mailing and shipping	L310 R525
2.4.4 Purchase stamps and other postal items and services	
2.4.5 Interpret procedures for tracking shipments	
2.4.6 Interpret a postal money order form	
2.4.7 Interpret postal regulations and mailing and shipping procedures and requirements	
2.5 Use community agencies and services	
2.5.1 Locate and utilize services of agencies that provide emergency help	
2.5.2 Access governmental social services, e.g., Social Security, Medicare, welfare programs	
2.5.3 See 3.1.3	2.5.3 See 3.1.3
2.5.4 See 2.2.1	2.5.4 See 2.2.1
2.5.5 See 2.8	2.5.5 See 2.8
2.5.6 Use library services	R421, R422
2.5.7 See 5.4.5	2.5.7 See 5.4.5
2.5.8 Identify community organizations and their purpose and functions	
2.5.9 Identify and use child care services in the community	
2.6 Use leisure time resources and facilities	
2.6.1 Interpret information about recreational and entertainment facilities and activities	R435
2.6.2 Locate information in TV, movie, and other entertainment listings	
2.6.3 Locate and Interpret information in order to plan for recreational activities and other events	LS14
2.6.4 Interpret and order from restaurant and fast food menus, and compute costs	
2.7 Understand aspects of society and culture	
2.7.1 Interpret information about holidays	
2.7.2 Interpret information about ethnic groups, cultural groups, and language groups	R620, R635
2.7.3 Interpret information about social issues	SS480, SS490 R635
2.7.4 Interpret information about religion	SS310, SS311, SS320, SS490
2.7.5 Interpret literary materials such as poetry and literature	R600, R605, R610, R615, R620, R625, R630, R635
2.7.6 Interpret materials related to the arts, such as fine art, music, drama, and film	R610
2.7.7 Obtain and interpret news from a variety of media sources (see also 7.6)	R430, R435, R252, R260, R465

2.7.8 Identify societal influences such as the media, popular culture, politics, and religion, and how they affect people's perceptions, attitudes, and actions (see also 7.6)	R625, R635, R252 SS320, SS361
2.7.9 Identify similarities and differences between cultures and how these affect interpersonal and social relations and adaptation to a new cultural	
2.8 Understand how to access and use educational systems and services	
2.8.1 Interpret information about the educational system, from early childhood to postsecondary	R510
2.8.2 Identify, evaluate, and access schools and other learning resources	
2.8.3 Locate and interpret information related to classes, schedules, programs, faculty, facilities, etc.	R510
2.8.4 Interpret policies and procedures of educational institutions regarding attendance, grades, conduct, student rights, etc.	
2.8.5 Interpret school-related forms, such as registration and application forms	R500, R510 L500
2.8.6 Interpret information from schools and communicate with school personnel	LS18, LS19
2.8.7 Interpret information about educational support services, such as counseling, accommodations, and financial aid, and identify ways to access them	
2.8.8 Interpret information related to student and school performance, and identify ways to promote change	
2.8.9 Identify ways to get involved or volunteer in an educational setting	
3. Health	
3.1 Understand how to access and use the health care system	
3.1.1 See 3.6.1, 3.6.3, 3.6.4	
3.1.2 Identify information necessary to make or keep medical and dental appointments	
3.1.3 Identify and use health care services and facilities, including interacting with staff	
3.1.4 Identify common types of medical and health practitioners and specialists	
3.1.5 Identify and access counseling services	
3.1.6 Interpret information about health care plans, insurance, and benefits	
3.1.7 Interpret information about patient rights, such as confidentiality and health care decisions	
3.2 Understand forms related to health care	
3.2.1 Fill out medical health history forms	
3.2.2 See 3.4.6	
3.2.3 Interpret forms associated with health insurance	
3.2.4 Interpret medical bills	
3.3 Understand how to select and use medications	
3.3.1 Identify and use appropriate medications, including prescription, over-the-counter, and generic medications	

3.3.2 Interpret medicine labels (see also 3.3.1)	R535
3.3.3 See 3.3.1	3.3.3 See 3.3.1
3.3.4 Interpret information on medications and their proper and safe use	R535
3.4 Understand basic safety measures and health risks	
3.4.1 Interpret product label directions and safety warnings (see also 1.7.3)	R535, R540
3.4.2 Identify safety measures that can prevent accidents and injuries	
3.4.3 Interpret procedures for simple first-aid	R235
3.4.4 Interpret information about AIDS and other sexually transmitted diseases (see also 3.6.3)	
3.4.5 Recognize problems related to drugs, tobacco, and alcohol and identify where treatment may be obtained	
3.4.6 Interpret immunization requirements	
3.4.7 Interpret health and danger alerts	
3.4.8 Interpret information regarding disaster preparedness	
3.5 Understand basic principles of health maintenance	
3.5.1 Interpret information about nutrition, including food labels (see also 1.6.1)	BM520 R535 Sc542
3.5.2 Identify a healthy diet	Sc542
3.5.3 Identify how to handle, prepare and store food safely	
3.5.4 Identify practices that promote dental health	
3.5.5 Identify practices that promote cleanliness and hygiene	WF460
3.5.6 Interpret information and identify agencies that assist with family planning (see also 3.1.3)	
3.5.7 See 2.8.2, 3.6.5	3.5.7 See 2.8.2, 3.6.5
3.5.8 Interpret information about mental health, including psychological problems and conditions, and stress management	Sc542
3.5.9 Identify practices that help maintain good health, such as regular checkups, exercise, and disease prevention measures (see also 3.5.2)	Sc542
3.6 Understand basic health and medical information	
3.6.1 Identify parts of the body	Sc540
3.6.2 Interpret medical-related vocabulary (e.g., X-ray, blood test)	Sc542, Sc650
3.6.3 Interpret information about illnesses, diseases, and health conditions, and their symptoms	
3.6.4 Communicate with a doctor or other medical staff regarding condition, diagnosis, treatment, concerns, etc., including clarifying instructions	
3.6.5 Interpret information on the development, care, and health and safety concerns of children	
3.6.6 Interpret information about health issues related to aging	
3.6.7 Interpret information about sexuality	
3.6.8 Interpret information about medical procedures and the considerations and risks involved	
3.6.9 Interpret and critically assess health and medical-related information from public sources such as the Internet	R465, R251, R252 W260

4. Employment	
4.1 Understand basic principles of getting a job	
4.1.2 Follow procedures for applying for a job, including interpreting and completing job applications, résumés, and letters of application	R500, R505, R520 L500, L510
4.1.3 Identify and use sources of information about job opportunities such as job descriptions, job ads, and online searches, and about the job market	R510, R50 L500 WF320, WF330, WF340, WF350
4.1.4 Identify and use information about training opportunities (see also 2.8.2)	WF320, WF380, R320
4.1.5 Identify how to interview appropriately for a job	WF360, WF370
4.1.6 Interpret general work-related vocabulary (e.g., supervisor, shift)	WF360, W370
4.1.7 Identify appropriate behavior and attitudes for getting a job	WF400, WF410, WF420, WF440
4.1.8 Identify common occupations and the skills and education required for them	
4.1.9 Identify procedures for career planning, including self-assessment	WF310 LS9, LS10, LS11
4.2 Understand wages, benefits, employee rights, and concepts of employee organizations	
4.2.1 Interpret wages, deductions, pay statements, and timekeeping forms	
4.2.2 Interpret information about employee organizations	SS620
4.2.3 Interpret employment contract and union agreements	
4.2.4 Interpret employee handbooks, personnel policies, and job manuals	WF400
4.2.5 Interpret information about employee benefits	WF400
4.2.6 Interpret information about legal rights of employees, including issues such as discrimination and sexual harassment	
4.3 Understand work-related safety standards and procedures	
4.3.1 Interpret safety signs found in the workplace	R540 WF440
4.3.2 Interpret safe work procedures, safety manuals, and related information such as ergonomic requirements	
4.3.3 Identify common safety equipment and safe work attire	WF460
4.3.4 Report unsafe working conditions and work-related accidents, injuries, and damages	
4.4 Understand concepts and materials related to job performance and training	
4.4.1 Identify appropriate behavior, attire, attitudes, and social interaction, and other factors that affect job retention and advancement	WF400s: Keeping a Job LS15, LS21, LS23, LS25
4.4.2 Identify appropriate skills and education for keeping a job and getting a promotion	
4.4.3 Interpret job-related signs, charts, diagrams, forms, and procedures, and record information on forms, charts, checklists, etc. (see also 4.3.1)	R540, R235 BM520
4.4.4 Interpret job responsibilities and performance reviews	WF400
4.4.5 Identify job training needs and set learning goals	LS11

4.4.6 Interpret work specifications and quality standards	WF320
4.4.7 Demonstrate the ability to apply or transfer skills learned in one job situation to another	
4.4.8 Interpret job-related technical information, such as from service manuals and training classes	
4.5 Effectively use common workplace tools and technology	
4.5.1 Identify and use common tools, equipment, machines, and materials required for one's job	
4.5.2 Demonstrate ability to enter information using keyboards, keypads, and other devices	
4.5.3 See 4.7.5	4.5.3 See 4.7.5
4.5.4 Demonstrate use of common business machines	
4.5.5 Demonstrate the ability to use a computer in performing work tasks	
4.5.6 Demonstrate ability to select, set up, and apply appropriate technology for a given task	
4.5.7 Demonstrate ability to troubleshoot and resolve problems with machines and to follow proper maintenance procedures	
4.6 Communicate effectively in the workplace	
4.6.1 Follow, clarify, give, or provide feedback to instructions; give and respond appropriately to criticism	WF440 LS5, LS7, LS22, LS23
4.6.2 Interpret and write work-related correspondence, including notes, memos, letters, and e-mail	WF340, WF400 L330, L400
4.6.3 Interpret written workplace announcements and notices (see also 4.4.3)	WF440 L330
4.6.4 Report progress on activities, status of assigned tasks, and problems and other situations affecting job completion	
4.6.5 Select and analyze work-related information for a given purpose and communicate it to others orally or in writing	WF440 LS19
4.7 Effectively manage workplace resources	
4.7.1 Interpret or prepare a work-related budget, including projecting costs, keeping detailed records, and tracking status of expenditures and revenue	
4.7.2 Identify or demonstrate effective management of material resources, including acquisition, storage, and distribution	
4.7.3 Identify or demonstrate effective management of human resources, including assessing skills, making appropriate work assignments, and monitoring performance	
4.7.4 Identify, secure, evaluate, process, and/or store information needed to perform tasks or keep records	
4.7.5 Demonstrate ability to use a filing system or other ordered system (e.g., coded or numbered)	
4.8 Demonstrate effectiveness in working with other people	
4.8.1 Demonstrate ability to work cooperatively with others as a member of a team, contributing to team efforts, maximizing the strengths of team members, promoting effective group interaction, and taking personal responsibility for accomplishing goals	LS25

4.8.2 Identify ways to learn from others and to help others learn job-related concepts and skills	LS18, LS25, WF440, WF450
4.8.3 Demonstrate effective communication skills in working with customers and clients	LS18, LS19 WF400, WF440
4.8.4 Demonstrate initiative and resourcefulness in meeting the needs and solving the problems of customers	WF430, WF440, WF450 LS13
4.8.5 Demonstrate leadership skills, including effectively communicating ideas or positions, motivating and respecting others, and responsibly challenging existing policies	WF440, WF450 LS5, LS13, LS20, LS21, LS25
4.8.6 Demonstrate negotiation skills in resolving differences, including presenting facts and arguments, recognizing differing points of view, offering options, and making compromises	LS5, LS20
4.8.7 Identify and use effective approaches to working within a multicultural workforce, including respecting cultural diversity, avoiding stereotypes, and recognizing concerns of members of other ethnic and gender groups	WF440, WF450 LS21
4.9 Understand how organizational systems function, and operate effectively within them	
4.9.1 Identify the formal organizational structure of one's work environment	WF400 LS17
4.9.2 Identify an organization's goals and priorities, and factors that affect its operation	LS17
4.9.3 Identify sources of information and assistance, and access resources within a system	LS17 WF400
4.9.4 Assess the operation of a system or organization and make recommendations for improvement, including development of new systems	LS17
5. Government and Law	
5.1 Understand voting and the political process	
5.1.1 Identify voter qualifications	SS520, SS530 L510
5.1.2 Interpret a voter registration form	L10
5.1.3 Interpret a ballot	
5.1.4 Interpret information about electoral politics, political parties, and candidates	SS520, SS530 L510
5.1.5 Interpret information about special interest groups	SS530
5.1.6 Identify, interpret, and express opinions on political and other public issues	SS520, SS620, SS490
5.1.7 Identify how to contact public officials about issues and concerns	
5.2 Understand historical and geographical information	
5.2.1 Interpret information about U.S. history	SS400s (U.S. History)
5.2.2 Identify or interpret U.S. historical documents	SS410, SS450, SS460, SS500
5.2.3 Interpret information about world history	SS300s (World History)
5.2.4 Interpret information about U.S. states, cities, geographical features, and points of interest	SS200, SS210
5.2.5 Interpret information about world geography	SS110, SS120, SS130
5.2.6 Identify the U.S. flag, other national symbols, and principal monuments	

5.3 Understand an individual's legal rights and responsibilities and procedures for obtaining legal advice	
5.3.1 Interpret common laws and ordinances, and legal forms and documents	
5.3.2 Identify individual legal and civil rights and procedures for obtaining legal advice	
5.3.3 Interpret basic court procedures	
5.3.4 See 1.6.2, 1.6.6	5.3.4 See 1.6.2, 1.6.6
5.3.5 See 5.3.7	5.3.5 See 5.3.7
5.3.6 Interpret information or identify requirements for establishing residency and/or obtaining citizenship	SS530
5.3.7 Identify common infractions and crimes, and legal consequences	
5.3.8 Identify procedures for reporting a crime	
5.3.9 Identify rights, responsibilities, and legal obligations in domestic relationships (e.g., parental, spousal) and how to report problems	
5.4 Understand information about taxes and fees	
5.4.1 Interpret and complete income tax forms	R520
5.4.2 Identify or compute sales tax	BM550
5.4.3 Interpret tax tables (see also 5.4.1)	BM520 R535 Sc542
5.4.4 Interpret tax information from articles and publications	
5.4.5 Interpret permit and license requirements (see also 1.9.2)	R535
5.5 Understand the functions of government	
5.5.1 Interpret information about international affairs	SS360, SS361, SS362, SS480, SS490, SS520
5.5.2 Interpret information about the legislative branch and its activities	SS510
5.5.3 Interpret information about the judicial branch and its activities	SS510, SS520
5.5.4 Interpret information about the executive branch and its activities	SS510
5.5.5 Interpret information about the military	
5.5.6 Interpret information about law enforcement	
5.5.7 Interpret information about local policymaking groups	
5.5.8 Identify local, state and federal government leaders	
5.5.9 Interpret information about the structure of government and the political system, including federal, state, and local	
5.6 Understand civic responsibilities and activities	
5.6.1 Interpret information about neighborhood or community problems and their solutions	
5.6.2 Interpret information about civic organizations and public service groups	
5.6.3 Identify civic responsibilities such as voting, jury duty, and paying taxes	
5.6.4 Identify ways of conserving resources, including recycling and using energy efficiently	

5.6.5 Identify volunteer agencies and opportunities in the community	
5.7 Understand issues related to science and ethics	
5.7.1 Interpret information related to environmental issues	Sc630, Sc640
5.7.2 Interpret information related to energy issues	Sc640
5.7.3 Interpret information about issues related to natural sciences, such as biology	Sc300s (Chemistry), Sc400s (Life Science), Sc500s (Physics), 600s (Earth and Space Science)
5.7.4 Interpret information related to technological issues	Sc140, Sc150, Sc151, Sc312, Sc603, Sc630, Sc640, Sc650
5.7.5 Interpret information about issues related to social sciences, such as psychology	
5.7.6 Interpret information related to ethical and philosophical issue	Sc650
5.8 Understand concepts of economics	
5.8.1 Interpret economic information and statistics	SS600, SS610
5.8.2 Interpret information on economic issues and trends	SS600, SS610, SS620
5.8.3 Interpret information on world economic systems	SS610
6. Math	
6.0 Demonstrate pre-computation skills	
6.0.1 Identify and classify numeric symbols	m100, m105, m110, m115, m120, BM100
6.0.2 Count and associate numbers with quantities, including recognizing correct number sequencing	m100 BM100
6.0.3 Identify information needed to solve a given problem	m245 BM190, BM260
6.0.4 Determine appropriate operation to apply to a given problem	BM190
6.0.5 Demonstrate use of a calculator.	AM510, AM520
6.1 Compute using whole numbers	
6.1.1 Add whole numbers	m110, BM140
6.1.2 Subtract whole numbers	m120, BM150
6.1.3 Multiply whole numbers	m130, Bm140
6.1.4 Divide whole numbers	m140, BM170
6.1.5 Perform multiple operations using whole numbers	BM190, AM170
6.2 Compute using decimal fractions	
6.2.1 Add decimal fractions	BM140
6.2.2 Subtract decimal fractions	BM150
6.2.3 Multiply decimal fractions	BM160
6.2.4 Divide decimal fractions	BM180
6.2.5 Perform multiple operations using decimal fractions	BM190, AM170
6.2.6 Convert decimal fractions to common fractions or percents	BM300, BM310
6.3 Compute using fractions	m225 BM220
6.3.1 Add common or mixed fractions	m230 BM230
6.3.2 Subtract common or mixed fractions	m235 BM240

6.3.3 Multiply common or mixed fractions	m240 BM250
6.3.4 Divide common or mixed fractions	m245 BM260, AM170
6.3.5 Perform multiple operations using common or mixed fractions	BM300, BM310
6.3.6 Convert common or mixed fractions to decimal fractions or percents	m200, m205, m215, m220 BM200
6.3.7 Identify or calculate equivalent fractions	BM400, BM550
6.4 Compute with percents, rate, ratio, and proportion	
6.4.1 Apply a percent to determine amount of discount	BM400, BM550
6.4.2 Apply a percent in a context not involving money	BM400, BM550
6.4.3 Calculate percents	BM310, BM400
6.4.4 Convert percents to common, mixed, or decimal fractions	BM310
6.4.5 Use rate to compute increase or decrease	BM560
6.4.6 Compute using ratio or proportion	BM410
6.5 Use expressions, equations, and formulas	
6.5.1 Recognize and evaluate simple consumer formulas	BM540, BM550, BM560, BM570
6.5.2 Recognize and apply simple geometric formulas	AM220, AM230, AM240, AM260, AM271
6.5.3 Recognize and apply simple algebraic formulas	AM130, AM140, AM170, AM300, AM310, AM320, AM330, AM440 BM580, BM620, BM630
6.5.4 Recognize and evaluate logical statements	AM280
6.6 Demonstrate measurement skills	
6.6.1 Convert units of U.S. standard measurement and metric system	Sc110 m310, m320
6.6.2 Recognize, use, and measure linear dimensions, geometric shapes, or angles	BM600, BM610, BM620
6.6.3 Measure area and volume of geometric shapes	BM640, BM650 AM200, AM205
6.6.4 Use or interpret measurement instruments, such as rulers, scales, gauges, and dials	AM220, AM230, AM240
6.6.5 Interpret diagrams, illustrations, and scale drawings	R305 BM640, BM650
6.6.6 Calculate with units of time	AM260
6.6.7 Solve measurement problems in stipulated situations	m305 BM630 R300
6.6.8 Interpret mechanical concepts or spatial relationships	BM620
6.6.9 Use or interpret switches and controls	Sc400s
6.7 Interpret data from graphs and compute averages	
6.7.1 Interpret data given in a line graph	R440, BM510
6.7.2 Interpret data given in a bar graph	R440 BM510
6.7.3 Interpret data given in a picture graph	R440 BM510
6.7.4 Interpret data given in a circle graph	R440 BM510

6.7.5 Compute averages, medians, or modes	m300 BM440
6.8 Use statistics and probability	
6.8.1 Interpret statistical information used in news reports and articles	R435, R460 BM440, BM450
6.8.2 Interpret statements of probability	BM420, BM430
6.9 Use estimation and mental arithmetic	
6.9.1 Use computation short cuts	BM500 AM310, AM250
6.9.2 Estimate answers	BM500 AM250
7. Learning and Thinking Skills	
7.1 Identify or demonstrate effective skills and practices in accomplishing goals	
7.1.1 Identify and prioritize personal, educational, and workplace goals (see also 4.4.5)	LS9, LS10, LS11, LS12, LS14, LS15, WF310, WF320
7.1.2 Demonstrate an organized approach to achieving goals, including identifying and prioritizing tasks and setting and following an effective schedule	LS9, LS10, LS11, LS14, LS15
7.1.3 Demonstrate initiative and persistence in accomplishing goals	LS11, LS12, LS13 WF310
7.1.4 Establish, maintain, and use a system of personal organization, such as paper or electronic files, calendars, and checklists (see also 4.7.5)	LS14, LS15 WF380
7.2 Demonstrate ability to use critical thinking skills	
7.2.1 Identify and paraphrase pertinent information	R201, R202
7.2.2 Analyze a situation, statement, or process, identifying component elements and causal and part/whole relationships	LS13, LS14, LS15, LS16, LS17 R221, R222, R223, R230, R241, R242, R470
7.2.3 Make comparisons, differentiating among, sorting, and classifying items, information, or ideas	BM500, BM540 R141, R130, R135, R140 Sc100, Sc520
7.2.4 Identify or make inferences through inductive and deductive reasoning to hypothesize, predict, conclude, and synthesize	Sc100, Sc130, Sc200, Sc201, Sc210, r215 R230, R241, R242
7.2.5 Evaluate a situation, statement, or process, assembling information and providing evidence, making judgments, examining assumptions, and identifying contradictions	r215 R230, R241, R242, R451, R452, R260, W240 Sc100, Sc130, Sc200, Sc211
7.2.6 Generate ideas using various approaches, such as brainstorming	W510, LS12, LS13 R470 Sc201, Sc210, Sc211
7.2.7 Consider factors involved in making decisions, such as goals, constraints, consequences, alternatives, and input from others	LS7, LS10, LS11, LS12, LS13, LS14 WF440, WF450
7.2.8 Demonstrate abstract thinking, such as understanding symbolism and metaphors	r165 R605 W230

7.3 Demonstrate ability to use problem-solving skills	
7.3.1 Identify a problem and its possible causes	LS12, LS13 , LS16 r205 R241, R242
7.3.2 Devise and implement a solution to an identified problem	LS12, LS13
7.3.3 Evaluate the outcome of an implemented solution and suggest modifications to the solution as needed	LS12, LS13
7.3.4 Use problem-solving strategies, such as breaking down the problem into component parts and generating alternative or creative solutions	LS12, LS13
7.4 Demonstrate study skills	
7.4.1 Identify and use effective study strategies	
7.4.2 Take notes or write a summary or an outline	W510 LS18, LS19 R201, R202
7.4.3 Identify and use strategies for remembering information	
7.4.4 Identify, evaluate and use appropriate informational resources, including the Internet (see also 4.9.3)	R400, R460, R465, R470
7.4.5 Use reference materials, such as dictionaries and encyclopedias	R400, R405, R410, R415 L900
7.4.6 Use an index or table of contents	R415, R430
7.4.7 Identify and use test-taking skills and strategies	
7.4.8 Interpret visual representations, such as symbols, blueprints, flowcharts, and schematics (see also 6.6.5)	
7.4.9 Identify personal learning style	
7.5 Understand aspects of and approaches to effective personal management	
7.5.1 Identify personal values, qualities, interests, abilities, and aptitudes	WF310 LS1, LS2, LS3, LS9, LS24
7.5.2 Identify or use strategies to develop a positive attitude and self-image, and self-esteem	LS1, LS2, LS3, LS4, LS7, LS8 WF400, WF450, WF460
7.5.3 Identify or use strategies to cope with negative feedback	LS7, LS8
7.5.4 Identify sources of stress, and resources for stress reduction	LS6
7.5.5 Identify personal, family, and work responsibilities, and ways to accommodate them and deal with related problems	WF310, WF410, WF420 LS5, LS10, LS12, LS13, LS15
7.5.6 Identify or use strategies for communicating more successfully	Life Skills 25 Interpersonal Skills Series WF440, WF450 R260, R620 W200s (Clear and Concise Writing), W300s (Competent Writing), W500s (Writing Process), W600s (Writing Applications Clusters)
7.5.7 Identify constructive ways of dealing with change, including showing flexibility and adaptability, and updating skills	

7.6 Demonstrate the ability to view the media critically	
7.6.1 Identify the different forms of media, sources and purposes of media messages, and how content is determined and shaped	R251, R252, R260, R430, R435, R460, R465 Sc100
7.6.2 Interpret literal and indirect media messages and the influence of factors such as popular culture and sensationalism	R251, R252, R260 W240
7.6.3 Distinguish fact from opinion, fiction from non-fiction, and point of view in media messages and presentations	R251, R252, R260 W240
7.6.4 Interpret rating systems for media content	
7.7 Demonstrate the ability to use information and communication technology	
7.7.1 Identify common information and communication technology and other electronic devices and their uses, and how they work together	
7.7.2 Demonstrate basic skills in using a computer, including using common software applications	
7.7.3 Demonstrate ability to use the Internet	
7.7.4 Demonstrate ability to use e-mail and other messaging	
7.7.5 Identify safe and responsible use of information and communication technology	
7.7.6 Interpret operating and maintenance procedures for information and communication equipment and devices	
8. Independent Living	
8.1 Perform self-care skills	
8.1.1 Recognize and/or demonstrate hygiene and grooming skills (see 3.5.5)	WF460
8.1.2 Recognize and/or demonstrate dressing skills	WF360, WF460
8.1.3 Recognize and/or demonstrate dining skills and manners	
8.1.4 Recognize and/or demonstrate selection and care of clothing and personal property	
8.2 Perform home-care skills	
8.2.1 Recognize/demonstrate meal and snack preparation tasks and activities (see 1.1.1, 3.5.2)	
8.2.2 Recognize/demonstrate dishwashing/meal clean-up activities (see 3.5.5)	
8.2.3 Recognize and/or demonstrate housekeeping and house cleaning tasks	
8.2.4 Recognize and/or demonstrate laundry skills and related clothing-care skills (see 1.7.2, 1.7.3)	
8.2.5 Recognize and/or demonstrate yard and garden tasks and activities	
8.2.6 Recognize and/or demonstrate general household repair and maintenance (see 1.4.7, 1.7.4)	
8.3 Use support services to assist in maintaining independence and achieving community integration	
8.3.1 Identify and interact with persons in the home environment who can provide support in achieving goals (e.g., family, friends)	
8.3.2 Identify and interact with persons in the community who can provide support in achieving goals (e.g., neighbors, contacts from human service agencies and recreation facilities)	