Wyoming Content Standard 1. Number Operations and Concepts		
Skill 1. Understand the meaning of arithmetic operations and make reasonable estimates.		
Benchmark	Where in CCSS	Content Limits:
 06.1.4 Students explain their choice of estimation and problem solving strategies and justify results when performing number operations with fractions and decimals in problem-solving situations. 06.1.6 Students demonstrate an understanding of fractions and decimals by: representing fractions as division of whole numbers; converting between mixed numbers and improper fractions; simplifying fractions and mixed numbers; writing fractions in equivalent forms; using parts of a set; rounding decimal numbers to 10ths, 100ths, and whole numbers (units) place; and converting between decimals (from .01 to .99), fractions and representing percentages. 	N1 is embedded in N2 and N3.	

Wyoming Content Standard 1. Numb Skill 2. Understand ways to represent	Skill 2. Understand ways to represent numbers, relationships among numbers, and number systems.			
Benchmark	Where in CCSS	Content Limits:		
06.1.1 Students use the concept of place value to read and write decimals (to 1000ths) in words, standard, and expanded form.	 4.NBT.2 (Read and write compare two multi-digit numbers) 4.NF.2 (Compare two fractions with different numerators and different denominators) 5.NB.3 (Read, write, and compare decimals to thousandths 	 use of place value to read and write decimals (to thousandth word and standard form; Items may compare whole numbers, fractions and decimals (tenths, hundredths, and thousandths) greater than zero or integers and include ordering numbers on a number line. The data presented to students may be either precise values range of values, or a combination of precise values and estin of other values. Items may compare smaller or larger numbers, or compare to order of magnitude between numbers. 		
06.1.3 Students represent the number line using integers.	 6.NS.5 (Understand that positive and negative numbers are used together to describe quantities having opposite directions or values.) 6.NS.6 (Understand a rational number as a point on the number line) 	 Words, number lines, drawings, numerals, or symbols (<, >, =, ≤, ≥) may be used. An item may utilize one format or a variety of formats, such as fractions or decimals. Items may include the relationships among whole numbers and decimals given a real-world context. The place values of the fractional part of decimal numbers should range from tenths through thousandths. 		
 06.1.6 Students demonstrate an understanding of fractions and decimals by: representing fractions as division of whole numbers; converting between mixed numbers and improper fractions; 	5.NF.3 (Interpret a fraction as division of the numerator by the denominator)	 Items may contain multiple forms of a given value. Items will not include repeating decimals. Some items should include word names as well as numerals. Items should be set in either a real-world or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in some of these items, as appropriate. 		
 simplifying fractions and mixed numbers; writing fractions in equivalent forms; using parts of a set; 	4.NF.1 (recognize and generate equivalent fractions.)			

•	rounding decimal numbers to 10ths, 100ths, and whole	5.NBT.4 (round decimals to any place)
	numbers (units) place; and	
•	converting between decimals	4.NF.6 (Use decimal notation
	(from .01 to .99), fractions and	for fractions)
	representing percentages.	6.RP.3 (Percent)

Wyoming Content Standard 1. Number Operations and Concepts Skill 3. Develop the connection between conceptual understanding and computational proficiency.		
Benchmark	Where in CCSS	Content Limits:
06.1.2 Students multiply decimals (10ths & 100ths) and divide whole numbers by 2-digit divisors and divide decimals by whole numbers.	 5.NBT.6 (Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors) 5.NBT.7 (Add, subtract, multiply, and divide decimals to hundredths) 	 Items will assess the effects of the four basic operations on whole numbers and decimals (10ths and 100ths) to solve problems. Items will be limited to multiplying/dividing decimals by whole numbers. Items will not include a divisor more than two digits. Items will assess the addition and subtraction of decimals. Items will not include positive fractions with more than two-digit
06.1.4 Students explain their choice of estimation and problem solving strategies and justify results when performing number operations with fractions and decimals in problem- solving situations.	5.NBT.7 (relate the strategy to a written method and explain the reasoning used.) Core Practice #6	 Items will not include positive fractions with more than two-digit numerators and denominators, and/or decimals greater than thousandths. Items should not involve division by a fraction. Items should not assess abstract constructs. Items should be set in either a real-world or a mathematical context. Items involving estimation should be limited to use of whole numbers and decimals (tenths, hundredths, and thousandths) greater than zero only. Item situations should require estimation to find the solution and should not lend themselves to the calculation of an exact amount. CR items may have students "Show your work or explain your answer." Graphics should be used in some of these items, as appropriate

Skill 1. Specify locations and describe s Benchmark	Where in CCSS	Content Limits:
06.2.1 Students classify, describe, compare, and draw representations of 1- and 2- dimensional objects and angles.	 3.G.1 (categorize into classes based on attributes) 4.G.1 (Points, lines, line segments, rays, angles) 4.G.2 (parallel lines, angles) 5. G.2 (Graph ordered pairs in the first quadrant) 5.G.3 (Categories and subcategories) 5.G.4 (Use hierarchy of properties) 	 Items will assess identifying basic properties of lines (parallel, perpendicular, and intersecting) and various types of angles (acute, right, and obtuse). Objects or points on the coordinate grid should be placed on the points of intersection of the grid lines. Items may assess understanding and application of perpendicularity and parallelism. Items should utilize only a single figure, with no comparisons to other figures or transformations. Items may use coordinate planes. Items should be set in either a real-world or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate.

Wyoming Content Standard 2. Geometry		
Skill 2. Analyze characteristics and properties of two- and three-dimensional geometric shapes.		
Benchmark	Where in CCSS	Content Limits:
06.2.1 Students classify, describe, compare, and draw representations of 1- and 2- dimensional objects and angles	 3.G.1 (categorize into classes based on attributes) 4.G.1 (Points, lines, line segments, rays, angles) 4.G.2 (Parallel lines, angles) 4.G.3 (Lines of Symmetry) 5. G.2 (Graph ordered pairs in the first quadrant) 5.G.3 (Categories and subcategories) 5.G.4 (Use hierarchy of properties) 6.G.4. Represent three-dimensional figures using nets made up of rectangles and triangles 	 Items will assess identifying basic properties and attributes of circles and polygons such as triangles, quadrilaterals, parallelograms, and, trapezoids, and regular polygons such as pentagons and hexagons. Items may assess properties of specific types of triangles including scalene, isosceles and equilateral. Items using three-dimensional figures will use various types of drawings and perspectives (e.g., flat patterns/nets, isometric drawings). Items may use coordinate planes. Items should be set in either a real-world or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate.

Wyoming Content Standard 2. Geometry Skill 3. Apply transformations and use symmetry to analyze mathematical situations.		
06.2.2 Students identify and classify congruent objects by properties appropriate to grade level.	Where in CCSS6.NS.8. (graphing points in all four quadrants of the coordinate plane)8.G.2 (Understand a two- dimensional figure is congruent to)8.G.3. (Describe the effect of reflections on two- dimensional figures).	 Content Limits: Items may assess properties and relationships pertaining to regular two-dimensional shapes, and the concepts of symm reflections, and congruency. Items may assess understanding and application of symme and congruency. Items should assess only geometric concepts of two-dimensifigures. Items may present a coordinate plane to locate and/or descobjects.
06.2.3 Students communicate the reasoning used in identifying geometric relationships in problem-solving situations appropriate to grade level.	 4.G.3 (Recognize a line of symmetry for a two-dimensional figure) 5.G.3 (Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories) 5.G.4 (Classify two-dimensional figures in a hierarchy based on properties.) Core Practice #6 	 Items may be set in either a real-world or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate.

Wyoming Content Standard 3. Measurement		
Skill 1. Understand measurable attributes of objects and the units, systems, and processes of measurement.		
Benchmark	Where in CCSS	Content Limits:
06.3.1 Students apply estimation and measurement of length to content problems and express the results in metric units (centimeters and meters).	 2.MD.1 (Measure length using appropriate tools) 2.MD.3 (Estimate lengths with inches, feet, centimeters and meters) 7.G.1 Solve problems involving scale drawings 	 Items involving length should involve the metric system of measurement. Items involving converting units of length should use the metric system Items involving converting weight and capacity should use U.S. Customary units.
06.3.2 Students apply estimation and measurement of weight to content problems and express the results in U.S. customary units (ounces, pounds, and tons).	4.MD.1 (Know relative sizes of measurement units within one system of units Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit.)	 Items involving weight and capacity should use metric units. Items may require students to solve real-world problems, including distance, using a scale drawing. Measurements may be in either metric or customary units. All conversions of units must be within the same system of measurement (metric or customary). Items may involve up to three-unit conversions. Items should involve interpreting and applying various scales, including those based on models and maps.
06.3.3 Students apply estimation and measurement of capacity to content problems and express the results in U.S. customary units (teaspoons, tablespoons, cups, pints, quarts, gallons).	4.MD.1 (Know relative sizes of measurement units within one system of units Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit.)	 Scales must use only whole number increments and measures Items should be set in a real-world context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate.
06.3.4 Students demonstrate relationships within the U.S. customary units for weight and capacity and within the metric system (centimeters to meters) in problem-solving situations.	5.MD.1 (Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multistep, real world problems.)	

Wyoming Content Standard 3. Measurement		
Skill 2. Apply appropriate techniques, tools, and formulas to determine perimeter, area or volume.		
Benchmark	Where in CCSS	Content Limits:
06.3.5 Students determine the area and perimeter of regular polygons and the area of parallelograms, with and without models.	 3.MD.8 (Solve real world and mathematical problems involving perimeters of polygons) 6.G.1 (Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes;) 7.G.1 (Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing) 	 Items involving area should be limited to triangles, rectangles, and parallelograms. The number of two-dimensional figures assessed in an item cannot exceed two. Items should use numbers that are easy to compute with so that meaning rather than computation is the major focus. Items may assess the relationship between the area or perimeter of an original figure and that of a newly created figure, or how perimeter or area is affected by changes in the dimensions of the figure. The changes in dimensions of a figure that are increases should use scale factors that are common-unit fractions with denominators of 2, 3, or 4. Items may present two- or three-dimensional figures. Graphics should be used in most of these items, as appropriate. Items requiring three-dimensional graphics must be realistic and must include verbal descriptions. CR items may have students "Show your work or explain your answer." Items should be set in either a real-world or mathematical context

Wyoming Content Standard 4. Algebra			
Skill 1. Understand patterns, relations, a	Skill 1. Understand patterns, relations, and functions.		
Benchmark	Where in CCSS	Content Limits:	
 06.4.1 Students recognize, describe, extend, create, and generalize patterns, such as numeric sequences, by using manipulatives, numbers, graphic representations, including charts and graphs. 06.4.2 Students apply their knowledge of 	 4.OA.5 (Generate and analyze number and shape patterns) 6.EE.9 (Analyze the relationship between the dependent and independent variables using graphs and tables) 6.RP.3 (Use ratio and rate reasoning to solve real-world and mathematical problems) 	 Items will assess numerical and graphic patterns. Items may use pictures and graphics to present one-step linear equations. Items should not use more than two variables or include more than one operation. Items will use words, tables, symbols, variables, and graphs expressing equations or patterns. Items are limited to non-negative values. Operations in patterns such as function tables may include the effects of the four basic operations on whole numbers to solve problems Items may include graphic representations of a pattern, sequence, relationship, or function. Items may be set in either a real-world or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate. 	
patterns to describe a constant rate of change when solving problems.			

Wyoming Content Standard 4. Algebra			
Skill 2. Use mathematical models to re	Skill 2. Use mathematical models to represent and understand quantitative relationships.		
Benchmark	Where in CCSS	Content Limits:	
06.4.3 Students represent the idea of a variable as an unknown quantity, a letter, or a symbol within any whole number operation.	 6.EE.6 (Use variables to represent numbers and write expressions) 5.G.2 (Represent real world and mathematical problems by graphing points in the first quadrant) 	 Items may include only one variable limited to whole numbers. Problem situations involving multiplication should represent the operation as 5 • n or 5n when practical. Problem situations involving division should represent the operation using the symbol "÷"or "/" (e.g., 5 ÷ n or 5/n). Items involving graphing functions should be from the first quadrant and limited to plotting points with whole number coordinates. Items should rely primarily on translating among written descriptions, expressions, and graphic representations. Items may be assessed in either a real-world (including money) or mathematical context. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate 	

Wyoming Content Standard 5. Data Analysis and Probability			
Skill 1. Collect, organize, and display re	and use appropriate statistical methods to analyze the data.		
Benchmark	Where in CCSS	Content Limits:	
06.5.1 Students systematically collect, organize, and describe/represent numeric data using ine graphs.	3.MD.3 (Draw a scaled picture graph and a scaled bar graph) 6.SP.1—6.SP.5 (Recognize, use, and summarize statistical data)	 Items may include pictographs, charts, stem-and-leaf plots, bar graphs and single-line graphs, and venn diagrams. Histograms will not be assessed. The data displayed (i.e. bar and ine graphs or charts) should represent 8 or fewer categories. Items will assess finding the range, mean or mode of a set of data presented in a chart, list, table, graph, or plot (a.g., stem-and leaf plot or line plot). Items that assess understanding of these concepts may ask students to draw conclusions from an analysis of range and/or central tendency measures. No more than 10 pieces of data should be used for calculations of the mean and mode. No more than 10 pieces of data should be ordered. Items will assess: Data contained in these items need not be ordered. Items will assess: a interpreting and comparing information from bar graphs single-line graphs, stem-and-leaf plots, or Venn diagrams, single-line graphs, and recognizing appropriate scale increments; choosing reasonable titles, tabels, scales, and intervals for data on pictographs and bar or line graphs; g generating questions, collecting responses, and displaying data on graphs; and a analyzing and explaining in writing the implications of graphed data. CR items may have students "Show your work or explain your answer." Items should be used in most of these items, as appropriate. 	

Wyoming Content Standard 5. Data Analysis and Probability		
Skill 2. Develop and evaluate inferences and predictions that are based on data.		
Benchmark	Where in CCSS	Content Limits:
06.5.2 Students, given a scenario, recognize and communicate the likelihood of events using concepts from probability (i.e., impossible, equally likely, certain) appropriate to grade level.	 7.SP.5 (Understand probability expresses the likelihood of an event occurring and is expresses as a number between 0 and 1) 7.SP. 6 (Predict relative frequency of various probabilities) 7.SP.7 (Develop a probability model and use it to find probabilities of events) 7.SP.8 (Find probabilities of compound events) 	 Items may include probabilities for independent and dependent events. In items involving the determination of all possible outcomes, the number of outcomes should not exceed 24. Mathematical expectations of probabilities will be assessed using simple empirical data or theoretical probabilities. Most items developed for this context should assess simple events. Probabilities should be based on whole numbers. Items will assess the likelihood or probability of an outcome occurring. Probabilities may be expressed as certain, most likely, equally likely, least likely, and impossible. Items should be set in a real-world context. Students may be presented with word problems and/or tables. CR items may have students "Show your work or explain your answer." Graphics should be used in most of these items, as appropriate.