WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS
GRADE 1

1. NUMBER OPERATIONS AND CONCEPTS		
Students use numbers, number sense, and number relationships in a problem-solving situation.		
NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning.		
MA1.1.1	Students use the concept of place value to read and represent numbers up to 99.	**1.NBT.1** (Count to 120, starting at any number less than 120. …)
MA1.1.2	Students use sets of objects to compare values and order numerals.	**K.CC.6** (Identify whether the number of objects in one group is greater than, …)
MA1.1.3	Students use coins (penny, nickel, dime, and quarter) to compare values (more/less).	**2.MD.8** (Solve problems with money)
MA1.1.4	Students demonstrate computational fluency with basic facts (add to 10).	**1.OA.6** (Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.)
MA1.1.5	Students make a picture or *use objects* as strategies to solve problems.	**1.OA.1** (Use addition and subtraction within 20 to solve word problems … by using objects, drawings …) **1.OA.2** (Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects …)
MA1.1.6	Students communicate their choice of appropriate grade level procedures and results when performing operations in a problem-solving situation.	**1.OA.3** (Apply properties of operations as strategies to add and …) **Core Practice #6**

2. GEOMETRY		
Students apply geometric concepts, properties, and relationships in a problem-solving situation.		
NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning.		
MA1.2.1	<mark>Students recognize, name, compare, and sort 2- and 3-dimensional geometric objects.</mark>	**K.G.1** (Describe objects in the environment using names of shapes …) **K.G.2** (Correctly name shapes regardless of their orientations or …) **K.G.4** (Analyze and compare two- and three-dimensional shapes, …)
MA1.2.2	<mark>Students select, use, and communicate organizational methods in a problem-solving situation using 2- and 3- dimensional geometric objects.</mark>	**K.G.4** (Analyze and compare two- and three-dimensional shapes, …) **Core Practice #6**

3. MEASUREMENT		
Students use a variety of tools and techniques of measurement in a problem-solving situation.		
NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning.		
MA1.3.1	Students apply estimation and measurement of length to content problems using non-standard units up to 99 units.	**1.MD.1** (Order three objects by length; …) **1.MD.2** (Express the length of an object as a whole number of length units, …)
MA1.3.2	<mark style="background-color:red">Students apply estimation and measurement of capacity to content problems using non-standard units.</mark>	
MA1.3.3	Students tell time, using both analog and digital clocks to the nearest half-hour.	**1.MD.3** (Tell and write time in hours and half-hours using analog and digital clocks.)

4. ALGEBRA
Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.

NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning.		
MA1.4.1	Students recognize, create, and describe four-element patterns by using manipulatives and graphic representations.	**4.OA.5** (Generate a number or shape pattern that follows a given rule. …) **Core Practice #7**
MA1.4.2	Students apply knowledge of repeating patterns when solving problems.	**4.OA.5** (See above) **Core Practice #7**

5. DATA ANALYSIS AND PROBABILITY
Students use data analysis and probability to analyze given situations and the results of experiments.

NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning.		
MA1.5.1	Students collect and classify information to create graphs with pictures and report data in problem-solving situations.	**1.MD.4** (Organize, represent, and interpret data with up to three categories …)
MA1.5.2	Students communicate conclusions about a set of data using graphs with pictures.	**1.MD.4** (See above) **Core Practice #6**
MA1.5.3	Students perform and record (with tally marks) simple probability experiments.	**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)