# WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS

## GRADE K

| 1. NUMBER OPERATIONS AND CONCEPTS<br>**Students use numbers, number sense, and number relationships in a problem-solving situation.** | | |
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| NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning. | | |
| MAK.1.1 | Students read and represent numbers up to 9. | **K.CC.3** (Write numbers from 0 to 20.) |
| MAK.1.2 | Students recognize the larger of two sets. (Which set has more or less?) | **K.CC.6** (Identify whether the number of objects in one group is greater than, …) |
| MAK.1.3 | Students recognize and name penny, nickel, dime, and quarter using real coins. | **2.MD.8** (Solve problems with money) |
| MAK.1.4 | Students count with understanding up to 21 objects to solve problems. | **K.OA.1** (Represent addition and subtraction with objects, fingers, mental images, drawings, sounds …) |
| MAK.1.5 | Students act out or use objects as strategies to solve problems. | **K.OA.2** (Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or …)<br>**K.NBT.1** (Represent addition and subtraction with objects, fingers, mental images, drawings, sounds …) |

| 2. GEOMETRY<br>**Students apply geometric concepts, properties, and relationships in a problem-solving situation.** | | |
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| NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning. | | |
| MAK.2.1 | Students recognize, name, compare, and sort geometric shapes (circle, square, triangle and rectangle). | **K.G.2** (Correctly name shapes regardless of their orientations or overall size.) |
| MAK.2.2 | Students select, use, and communicate organizational methods in a problem -solving situation using geometric shapes. | **K.G.4** (Analyze and compare two- and three-dimensional shapes, in different sizes and …)<br>**K.G.5** (Model shapes in the world by building shapes …) |

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| | | **K.G.6** (Compose simple shapes to form larger shapes. …) |

| CONTENT STANDARD<br>3. MEASUREMENT<br>**Students use a variety of tools and techniques of measurement in a problem-solving situation.** | | |
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| NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning. | | |
| MAK.3.1 | Students apply estimation and measurement of length to content problems using non-standard units up to 9 units. | **1.MD.2** (Express the length of an object as a whole number of length units, by …) |

| 4. ALGEBRA<br>**Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.** | | |
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| NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning. | | |
| MAK.4.1 | Students recognize, describe, and create three-element patterns by using manipulatives. | **Core Practice #7** |

| 5. DATA ANALYSIS AND PROBABILITY<br>**Students use data analysis and probability to analyze given situations and the results of experiments.** | | |
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| NOTE: Students communicate the reasoning used in solving these problems. They may use tools/technology to support learning. | | |
| MAK.5.1 | Students sort real objects to create graphs. | **K.MD.3(creating graphs not included)** |
| MAK.5.2 | Students communicate conclusions from a set of data. (Which set has more or less?) | **K.CC.6** (Identify whether the number of objects in one group is greater than, …)<br>**Core Practice #6** |