MATHEMATICS

Standard 1: Throughout all of the following six standards, students will use reasoning, communication skills, and appropriate manipulatives (concrete materials) and technology within real-world problem-solving situations to make connections within mathematics and between mathematics and other disciplines.

Essentials

• 1M-E1. Read, write and order integers, whole numbers and rational numbers.
• 1M-E2. Relate the basic arithmetic operations to one another (e.g., multiplications and division are inverse operations).
• 1M-E3. Demonstrate proficiency with the operations of multiplication and division of whole numbers.
• 1M-E5. Represent and use numbers in equivalent forms (integers, fractions, percent, decimals, exponents).
• 1M-E6. Recognize that the degree of precision needed in calculating a number depends on how the results will be used and the instruments used to generate the measurements.

Proficiency

• 1M-P2. Construct, interpret and demonstrate meaning for real numbers and absolute value in problem-solving situations.

Standard 2: Students use data collection and analysis, statistics, and probability to make valid inferences, decisions and arguments and to solve a variety of real-world problems.

Essentials

• 2M-E1. Construct, read, analyze and interpret tables, charts, graphs and data plots (e.g., box-and-whisker, stem-and-leaf, and scatter plots)
• 2M-E2. Make valid inferences, predictions and arguments based on statistical analysis.

Proficiency

• 2M-P1. Construct and draw inferences including measures of central tendency, form charts, tables, graphs and data plots that summarize data from real-world situations.
• 2M-P11. Apply measures of central tendency, variability and correlation.

SOCIAL STUDIES

Standard 4: Students develop economic reasoning skills to apply basic economic concepts, assess problems, make choices, and evaluate the choices of others as consumers, workers, and citizens participating in local, national, and global economies.

Essentials

• 4SS-E2. Describe the functions of the major institutions in the United States economy.
• 4SS-E3. Describe how consumer and businesses interaction the United States economy.
• 4SS-E7. Describe the operation of a market economy.

Proficiency

• 4SS-P1. Analyze the implications of the economic problem of scarcity.
• 4SS-P4. Analyze the similarities and differences among economic systems.
• 4SS-P5. Describe the basic principles of microeconomics.