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PreK-6

MATHEMATICS

Standard 1: Students develop number sense and use numbers and number relationships to acquire basic facts, to solve a wide variety of real-world problems and to determine the reasonableness of results.

Foundations

- 1M-F2. Relate counting, grouping and place-value concepts to whole numbers

Essentials

- 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

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.

Readiness

- 2M-R1. Compare and sort objects by their physical attributes
- 2M-R2. Collect, organize and describe simple data

Foundations

- 2M-F1. Collect and analyze data using the concepts of largest, smallest, most often, least often and middle
- 2M-F2. Construct, read and interpret displays of data to make valid decisions, inferences and predictions

Essentials

- 2M-E1. Construct, read, analyze and interpret tables, charts, graphs and data plots

Standard 3: Students use algebraic methods to explore, model and describe patterns, relationships and functions involving numbers, shapes, data and graphs within a variety of real-world problem-solving situations.

Essentials

- 3M-E2. Describe, represent and analyze patterns and relationships using shapes, tables, graphs, data plots, verbal rules and standard algebraic notation

Standard 5: Students make and use direct and indirect measurement, metric and U.S. customary, to describe and compare the real world and to prepare for the study of discrete functions, fractals and chaos which have evolved out of the age of technology.

Readiness

- 5M-R1. Recognize that a single object has different attributes that can be measured in different ways
- 5M-R2. Compare and order objects according to observable attributes

Foundations

- 5M-F2. Explain the concepts related to units of measure and demonstrate the process of measurement with non-standard, U.S. customary and metric units

Essentials

- 5M-E1. Estimate, make and use measurements to describe and make comparisons
- 5M-E3. Estimate, use and describe measures of distance, perimeter, area, volume, capacity, weight, mass and angles

Standard 6: Students use both inductive and deductive reasoning as they make conjectures and test the validity of arguments.

Readiness

- 6M-R1. Sort and classify objects according to observable attributes

Essentials

- 6M-E1. Use models to explain how ratios, proportions and percents can be used to solve problems and apply reasoning processes, such as spatial reasoning and reasoning with proportions and graphs

SCIENCE

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SC01-S1C1-01 THRU 03

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SC03-S1C1-01, 02

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SC04-S1C4-01 THRU 03

SC05-S1C4-01 THRU 03

SC06-S1C4-01 THRU 03, 05

LANGUAGE ARTS

Standard 1: Students learn and effectively apply a variety of reading strategies for comprehending, interpreting and evaluating a wide range of texts including fiction, nonfiction, classic and contemporary works.

Readiness

- R-R5. Comprehend the meaning of simple written selections, using prior knowledge, letter/sound relationships and picture clues

Foundations

- R-F3. Using reading comprehension strategies such as drawing conclusions, summarizing, making predictions, identifying cause and effect, and differentiating fiction from nonfiction

Essentials

- R-E2. Use reading strategies such as making inferences and predictions, summarizing, paraphrasing, differentiating fact from opinion, drawing conclusions, and determining the author's purpose and perspective to comprehend written selections

Standard 2: Students effectively use written language for a variety of purposes and with a variety of audiences.

Foundations

- W-F4. Gather, organize and accurately, clearly and sequentially report information gained from personal observations and experiences such as science experiments, field trips and classroom visitors

Standard 3: Students effectively listen and speak in situations that serve different purposes and involve a variety of audiences.

Readiness

- Share ideas, information, opinions and questions
- Participate in group discussions

Foundations

- Prepare and deliver information by generating topics; identifying the audience; and organizing, facts or opinions for a variety of speaking purposes such as giving directions, relating personal experiences, telling a story or presenting a report

Standard 4: Students use a variety of visual media and resources to gather, evaluate and synthesize information and to communicate with others.

Foundations

- Interpret visual clues in cartoons, graphs, tables and charts that enhance the comprehension of text