

DON'T USE IT ALL UP! (Page 81)

PreK-12

LANGUAGE ARTS

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

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

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.

Readiness

- 1M-R1. Develop an understanding of number meanings and relationships

Foundations

- 1M-F7. Select and use appropriate techniques to facilitate computation while solving problems and determining the reasonableness of results

Essentials

- 1M-E1. Read, write and order integers, whole numbers and rational numbers
- 1M-E5. Represent and use numbers in equivalent forms
- 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.

Readiness

- 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
- 2M-E2. Make valid inferences, predictions and arguments based on statistical analysis

Proficiency

- 2M-P5. Design and conduct a statistical experiment to study a problem and interpret and communicate the outcomes
- 2M-P6. Use experimental or theoretical probability, as appropriate, to represent and solve problems involving uncertainty
- 2M-P7. Use simulations to estimate probabilities

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.

Readiness

- 3M-R1. Create, describe and extend a variety of patterns, using concrete objects

Foundations

- 3M-F1. Create, describe and extend a variety of patterns using shapes, events, designs and numbers
- 3M-F4. Represent and describe mathematical relationships such as order, grouping, etc.

Essentials

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

Proficiency

- 3M-P1. Model real-world phenomena using functions and relations
- 3M-P2. Represent and analyze relationships using written and verbal explanations, tables, equations and graphs and describe the connections among those representations

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.

Foundations

- 5M-F4. Use discrete mathematical models for graphs to represent everyday situations

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

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

Proficiency

- 6M-P1. Use inductive and deductive logic to construct simple valid arguments

SCIENCE

SC00-S1C1-01 THRU 03
 SC01-S1C1-01 THRU 03
 SC02-S1C1-01 THRU 02
 SC03-S1C1-01 THRU 02
 SC04-S1C1-01 THRU 04
 SC05-S1C1-01 THRU 02

SC00-S1C3-01 THRU 02
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 SC08-S1C4-01 THRU 03,05
 SCHS-S1C4-01 THRU 04

SC03-S3C1-01 THRU 02
 SC04-S3C1-01 THRU 02
 SC05-S3C1-01 THRU 03
 SC07-S3C1-01 THRU 03

SC04-S3C2-01 THRU 02
 SC06-S3C2-01 THRU 02
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 SCHS-S3C2-01,04,05

SC04-S4C3-01 THRU 04
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 SCHS-S4C3-01 THRU 03

SC00-S6C1-01 THRU 04
 SC01-S6C1-01 THRU 05
 SC03-S6C1-06
 SCHS-S6C1-05,06

SOCIAL STUDIES

Standard 3: Geography. Students analyze locations, regions, and spatial connections, recognizing the natural and cultural processes that impact the way in which people and societies live and interact with each other and their environment.

Foundations

- 3SS-F2. Identify natural and human characteristics of places and how people interact with and modify their environment.

Essentials

- 3SS-E5. Describe natural and human characteristics of places and use this knowledge to define regions, their relationships with other regions, and their patterns of change.
- 3SS-E6. Describe the economic, political, cultural, and social processes that interact to shape patterns of human populations, interdependence, and cooperation and conflict.
- 3SS-E7. Explain the effects of interactions between human and natural systems, including the changes in the meaning, use, and distribution of natural resources.
- 3SS-E8. Use geographic knowledge, skills, and perspectives to explain past, present, and future issues.

Proficiency

- 3SS-P3. Analyze how economic, political, cultural, and social processes interact to shape patterns and characteristics of human populations, interdependence, and cooperation and conflict.
- 3SS-P4. Analyze the interactions between human activities and the natural world in different regions, including changes in the meaning, use, distribution, and importance of natural resources.
- 3SS-P5. Apply geographic knowledge of people, places, and environments to understand the past and present and plan for the future.

Distinction

- 3SS-D7. Interpret basic patterns of urban geography, including an analysis of case studies of urban growth.

Standard 4: Economics. 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.

Foundations

- 4SS-F1. Describe how scarcity affects students' daily lives.

Essentials

- 4SS-E4. Apply the economic concept of scarcity and choice.
- 4SS-E6. Describe how people respond to positive and negative incentives.

Proficiency

- 4SS-P1. Analyze the implications of the economic problem of scarcity.