

WHAT WILL THE LAND SUPPORT (page 567)

Grades 5-12

MATHEMATICS

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-E2. Make valid inferences, predictions and arguments based on statistical analysis
- 2M-E4. Use counting strategies to determine all the possible outcomes of a particular event

Proficiency

- 2M-P7. Use simulations to estimate probabilities
- 2M-P8. Solve real-world problems by using combinations and permutations

Distinction

- 2M-D2. Test hypotheses using appropriate statistics

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-E4. Analyze functional relationships to explain how a change in one variable results in a change in another

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.

Proficiency

- R-P1. Apply reading strategies such as extracting, summarizing, clarifying, and interpreting information; predicting events and extending the ideas presented; relating new information to prior knowledge; supporting assertions with evidence; and making useful connections to other topics to comprehend works of literature and documents

SCIENCE

SC05-S1C1-01, 02

SC06-S1C1-01, 02

SCHS-S1C1-01, 04

SC05-S3C1-02, 03

SC07-S3C1-01 THRU 03

SCHS-S3C1-01, 05

SCHS-S3C3-02, 03

SC06-S4C3-02

SC07-S4C3-03, 04

SCHS-S4C3-01 THRU 03

SC05-S3C2-03

SC06-S3C2-01 THRU 03

SC07-S3C2-01 THRU 03

SC08-S3C2-01 THRU 03

SCHS-S3C2-04

SOCIAL STUDIES

Standard 1: History. Students analyze the human experience through time, recognize the relationships of events and people, and interpret significant patterns, themes, ideas, beliefs, and turning points in Arizona, American, and world history.

Essentials

- 1SS-E8. Demonstrate and apply the basic tools of historical research, including how to construct timelines, frame questions that can be answered by historical study and research, and analyze and evaluate historical materials offering varied perspectives.

Proficiency

- 1SS-P3. Develop historical interpretations in terms of the complexity of cause and effect and in the context in which ideas and past events unfolded.

Distinction

- 1SS-D1. Analyze historical and current events as a historian using primary and secondary sources to evaluate the legitimacy of the commentaries of an event and draw conclusions.
- 1SS-D2. Use historical knowledge to draw conclusions in an attempt to explain where specific current events will lead.

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.

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 economics, 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.

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-D3. Interpret basic patterns of agricultural and rural land use.
- 3SS-D4. Interpret basic patterns of industrial and economic development.
- 3SS-D5. Interpret basic patterns of political geography.
- 3SS-D6. Interpret basic patterns of populations geography.
- 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 choices of others as consumers, workers, and citizens participating in local, national, and global economies.

Essentials

- 4SS-E6. Describe the economic benefits of specialization and exchange.
- 4SS-E7. Describe the operation of a market economy.
- 4SS-E8. Describe the factors that cause economic growth.

Proficiency

- 4SS-P3. Describe how households and firms are interdependent and how their relationship is affected by trade, exchange, money, and banking.