

# Arizona Educator Proficiency Assessments® (AEPA®)

## FIELD 01: ELEMENTARY EDUCATION TEST OBJECTIVES

<b>Subarea</b>	<b>Range of Objectives</b>	<b>Approximate Test Proportions</b>
I. Language Arts	1–6	25%
II. Mathematics	7–11	21%
III. Science	12–16	21%
IV. Social Studies	17–21	21%
V. The Arts	22–24	12%

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**Effective after September 1, 2008**

**Arizona Educator Proficiency Assessments® (AEPA®)  
Subject Knowledge Test**

**Test Objectives  
Field 01: Elementary Education**

**Subareas:**

Language Arts  
Mathematics  
Science  
Social Studies  
The Arts

**LANGUAGE ARTS**

**0001 Understand the reading process.**

For example:

- demonstrating knowledge of the acquisition of concepts of print
- demonstrating knowledge of phonemic awareness and its relevance to reading development
- demonstrating knowledge of phonics and its relevance to reading development
- identifying decoding and word identification strategies, including spelling patterns, syllabication, and word parts
- recognizing strategies for increasing students' vocabulary knowledge and their ability to apply vocabulary knowledge in new contexts
- recognizing the role of fluency on reading and reading comprehension
- demonstrating knowledge of strategies for facilitating comprehension before, during, and after reading (e.g., predicting, self-monitoring, questioning, rereading)

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0002 Understand skills and strategies for reading literary texts.**

For example:

- identifying and analyzing the structures and elements of literature (e.g., plot, character, theme)
- recognizing and analyzing historical and/or cultural aspects of U.S., British, and world literature
- identifying common structures and stylistic elements in literature, folklore, and myths from a variety of cultures
- analyzing culturally and/or historically significant literary works of U.S., British, and world literature that reflect major literary periods and traditions

**0003 Understand skills and strategies for reading informational texts.**

For example:

- identifying and analyzing the purpose, structures, and elements of expository text
- identifying and analyzing the purpose, structures, and elements of functional text
- identifying and analyzing the purpose, structures, and elements of persuasive text

**0004 Understand the writing process.**

For example:

- identifying appropriate strategies for generating, planning, and organizing ideas for writing for specific purposes
- demonstrating knowledge of prewriting strategies (e.g., brainstorming, semantic mapping, outlining, reading, research)
- demonstrating knowledge of strategies and skills for creating drafts
- analyzing and revising written work in relation to organization, unity, clarity, and style
- identifying appropriate procedures for formatting and presenting final written products for a variety of audiences and purposes

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0005 Understand the elements of writing, including the six traits of writing.**

For example:

- recognizing writing that is clear and focused with main ideas supported by appropriate details
- applying knowledge of appropriate language to convey meaning through the use of word choice, style, and an appropriate connection with, or distance from, the audience
- recognizing a variety of sentence structures (e.g., simple, compound, complex, compound-complex) and lengths that reinforce relationships among ideas and enhance the flow of writing
- demonstrating knowledge of writing conventions, grammar, and word usage
- demonstrating knowledge of factors to consider when writing for various audiences and purposes and in a variety of forms (e.g., research paper, editorial, memoir) and modes (e.g., expressive, expository, functional, persuasive)

**0006 Understand principles and concepts related to listening, speaking, viewing, and presenting.**

For example:

- recognizing appropriate listening strategies for given contexts and purposes
- analyzing factors that affect the ability to listen effectively and to construct meaning from oral messages in various listening situations (e.g., applying prior knowledge, recognizing transitions, interpreting nonverbal cues, using note taking and outlining)
- identifying methods for organizing and sharing thoughts, feelings, ideas, and information for different audiences and purposes (e.g., giving instructions, telling a story, presenting a report, participating in group discussions, persuading an audience, entertaining)
- identifying effective ways to use graphics to describe data
- analyzing visual media for language use, the influence of subject matter and visual techniques on opinions, effects on decision making, and the presence of cultural perceptions
- recognizing the variety of technological resources used to communicate for a given purpose

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**MATHEMATICS**

**0007 Understand principles, concepts, and procedures related to numbers, number sense, and operations.**

For example:

- identifying ways of representing numbers and the relationships between numbers and different number systems
- applying numerical operations and recognizing their relationships to one another
- using reasonable estimation strategies in appropriate situations

**0008 Understand principles and concepts related to data analysis, probability, and discrete mathematics.**

For example:

- recognizing ways to collect, organize, and represent data
- analyzing and sorting different data
- applying the basic concepts of probability
- demonstrating the systematic listing and counting of possible outcomes
- demonstrating knowledge of and applying vertex-edge graphs

**0009 Understand principles, concepts, and procedures related to patterns, algebra, and functions.**

For example:

- identifying patterns and applying pattern recognition to reason mathematically
- recognizing functions and analyzing their relations
- recognizing and analyzing mathematical situations and structures using algebraic representations
- analyzing change in a variable over time and in various contexts

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0010 Understand principles, concepts, and procedures related to geometry and measurement.**

For example:

- analyzing the attributes and properties of two- and three-dimensional shapes and developing mathematical arguments about their relationships
- applying spatial reasoning to create transformations and using symmetry to analyze mathematical situations
- identifying and describing spatial relationships using coordinate geometry and other representational systems
- applying appropriate units, techniques, and formulas to determine measurements

**0011 Understand principles, concepts, and procedures related to mathematical structure and logic.**

For example:

- using reasoning to solve mathematical problems in various situations
- selecting problem-solving strategies, drawing logical conclusions, and developing and describing solutions for mathematical problems
- demonstrating an understanding of methods for constructing arguments and judging the validity or logic of arguments
- demonstrating an understanding of procedures for using a variety of materials, models, and methods to explore concepts and solve problems involving algebra

**SCIENCE**

**0012 Understand scientific inquiry and the principles and processes of scientific investigation.**

For example:

- demonstrating knowledge of processes involved in observing phenomena, asking questions, and making predictions
- identifying appropriate methods for planning and conducting investigations and recording data
- organizing and analyzing data and comparing collected data to predictions
- identifying processes involved in communicating the results of investigations

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0013 Understand the nature and historical development of scientific thought and the relationships between science, technology, and human activities.**

For example:

- identifying contributions from individuals and cultures to scientific knowledge
- recognizing ways in which science is a process for generating knowledge
- recognizing relationships between the sciences (e.g., life science, physical science, Earth and space science) and between the sciences and other disciplines
- applying scientific themes (e.g., patterns, change, models, systems) to help explain and make connections among seemingly diverse natural phenomena
- recognizing the interactions between human populations, natural hazards, and the environment
- evaluating ways in which given scientific advances (e.g., genetic research, computers) have affected human populations
- analyzing the effects of human activities (e.g., consumption of natural resources, pollution) on the environment and identifying scientific factors that affect human populations

**0014 Understand the basic principles and concepts of life science.**

For example:

- demonstrating knowledge of the basic structures and functions of cells
- demonstrating knowledge of the life cycles of common organisms
- demonstrating an understanding of the relationships among various organisms and their environments
- identifying plant and animal adaptations and applying the principles of heredity and genetics to understand how organisms change over time
- demonstrating knowledge of the organization of living systems and the role of energy within those systems

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0015 Understand the basic principles and concepts of physical science.**

For example:

- recognizing methods for classifying objects and materials based on their observable properties
- demonstrating knowledge of types of forces (e.g., gravity, friction) and basic concepts related to the motion of objects
- demonstrating knowledge of the properties of different forms of energy
- demonstrating knowledge of relationships between reactants and products in chemical reactions
- analyzing situations involving interactions between matter and energy in a system

**0016 Understand the basic principles and concepts of Earth and space science.**

For example:

- identifying the basic properties of Earth's materials
- demonstrating knowledge of objects in the sky and the interactions of those objects with Earth systems
- demonstrating an understanding of the relationships between Earth's land masses, oceans, and atmosphere
- identifying characteristics of weather conditions and climate
- recognizing the relationships between Earth and other objects in the solar system
- analyzing the factors used to explain the history, composition, and formative processes of Earth and the universe

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**SOCIAL STUDIES**

**0017 Understand major developments in American history and analyze their significance.**

For example:

- recognizing the geographic, political, economic, and cultural characteristics of early civilizations and the significant contributions of early civilizations to the development of the United States
- demonstrating knowledge of the reasons for exploration and colonization and recognizing the interactions between and the different perspectives of indigenous peoples and European settlers
- demonstrating knowledge of the people and events responsible for the evolution of the thirteen colonies into a nation
- demonstrating knowledge of the social, economic, and political structures; the people; and the events of the Civil War and Reconstruction
- recognizing and analyzing various perspectives and interpretations of the economic, social, and cultural changes that influenced the emergence of the United States as a world power

**0018 Understand major developments in world history and analyze their significance.**

For example:

- demonstrating knowledge of skills and strategies for locating and using a variety of sources for the study of world history
- recognizing ways in which the government, mythologies, art, architecture, and philosophies of early civilizations contributed to their development and the development of later civilizations
- recognizing the origin and influence of ideas, individuals, movement, cultures, and cultural groups on history and social change
- demonstrating knowledge of the major issues, people, events, ideas, and cause-and-effect relationships of historical periods and their influence on the present and the future
- recognizing the causes and consequences of major world conflicts

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0019 Understand various political systems and the structures, functions, and principles of local, state, and national governments, including the roles, rights, and responsibilities of citizenship.**

For example:

- demonstrating knowledge of the basic purposes and concepts of government
- recognizing the significant features of different political systems and forms of government
- demonstrating knowledge of the basic functions of the legislative, executive, and judicial branches of government at the national, state, and local levels
- demonstrating knowledge of the principles of democratic civic involvement and the roles, rights, and responsibilities of citizenship at the federal, state, local, and neighborhood levels
- recognizing the organization of politics in the world, characteristics of different forms of government, and factors that affect international relationships and foreign policy

**0020 Understand major principles, concepts, and phenomena of geography and the interactions among people, the environment, and culture.**

For example:

- identifying significant geographic features of Arizona, the United States, and the world
- recognizing how to use maps, charts, and other geographic tools to derive information
- demonstrating knowledge of major geographic concepts and themes (i.e., place, region, location, movement, and interaction)
- analyzing the nature and implications of various types of interactions between people and the environment, the effects of human activities on the environment, and the effects of the environment and environmental changes on people
- recognizing the influence of geographic features on human settlement patterns and historical events

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0021 Understand principles and concepts related to economics.**

For example:

- recognizing basic terminology and concepts related to economics, characteristics of economic systems, and the costs and consequences of economic choices (e.g., supply and demand, globalization)
- analyzing patterns and results of trade, exchange, and interdependence among individuals, businesses, and governments
- demonstrating knowledge of ways in which competition, markets, and prices influence personal financial behavior (e.g., saving, using credit)
- demonstrating knowledge of the use of economic information to make personal decisions as consumers, workers, investors, and effective participants in society

**THE ARTS**

**0022 Understand basic principles and skills related to creating, viewing, and responding to works of visual art.**

For example:

- demonstrating knowledge of the creative process, issues, and the variety of perspectives with which individuals approach works of visual art
- recognizing types and characteristics of materials, tools, and techniques used to create a variety of visual art (e.g., painting, drawing, sculpting)
- recognizing basic principles and elements of design in visual art
- demonstrating knowledge of the roles and functions of the visual arts in various cultures and historical periods
- evaluating procedures for viewing and responding to works of visual art

**0023 Understand basic principles and skills related to music.**

For example:

- demonstrating knowledge of the creative process, issues, and the variety of perspectives with which individuals approach musical works
- recognizing types and characteristics of musical instruments
- recognizing common musical terms and concepts
- demonstrating knowledge of ways in which music can be used as a form of communication, self-expression, and social expression
- evaluating procedures for listening and responding to musical works

**TEST OBJECTIVES**  
**FIELD 01: ELEMENTARY EDUCATION**

**0024 Understand basic principles and skills related to theatre and dance.**

For example:

- demonstrating knowledge of the creative process, issues, and the variety of perspectives with which individuals approach theatre and dance works
- recognizing various forms (e.g., puppet theatre, sociodrama, expressive dance) associated with theatre and dance
- recognizing common terms related to theatre and dance
- demonstrating an understanding of ways in which drama and dance can be used as forms of communication, self-expression, and social expression
- evaluating procedures for viewing and responding to theatrical and dance works