



Second Grade  
Outreach Programs  
TEKS

# Second Grade Animal Program:

## **§112.13. Science, Grade 2, Beginning with School Year 2010-2011**

- (2) Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:
- (A) ask questions about organisms, objects, and events during observations and investigations;
- (3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:
- (C) identify what a scientist is and explore what different scientists do.
- (4) Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:
- (A) collect, record, and compare information using tools, including computers, hand lenses, rulers, primary balances, plastic beakers, magnets, collecting nets, notebooks, and safety goggles; timing devices, including clocks and stopwatches; weather instruments such as thermometers, wind vanes, and rain gauges; and materials to support observations of habitats of organisms such as terrariums and aquariums; and
- (9) Organisms and environments. The student knows that living organisms have basic needs that must be met for them to survive within their environment. The student is expected to:
- (A) identify the basic needs of plants and animals;
  - (B) identify factors in the environment, including temperature and precipitation, that affect growth and behavior such as migration, hibernation, and dormancy of living things; and
  - (C) compare and give examples of the ways living organisms depend on each other and on their environments such as food chains within a garden, park, beach, lake, and wooded area.
- (10) Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:
- (A) observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs such as fins help fish move and balance in the water;

# Second Grade Dinosaur Program:

## **§112.13. Science, Grade 2, Beginning with School Year 2010-2011.**

(2) Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:  
(A) ask questions about organisms, objects, and events during observations and investigations;

(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:  
(C) identify what a scientist is and explore what different scientists do.

(9) Organisms and environments. The student knows that living organisms have basic needs that must be met for them to survive within their environment. The student is expected to:  
(A) identify the basic needs of plants and animals;  
(C) compare and give examples of the ways living organisms depend on each other and on their environments such as food chains within a garden, park, beach, lake, and wooded area.

(10) Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:  
(A) observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs such as fins help fish move and balance in the water;

## **§113.13. Social Studies, Grade 2, Beginning with School Year 2011-2012.**

(2) History. The student understands the concepts of time and chronology. The student is expected to:  
(A) describe the order of events by using designations of time periods such as historical and present times;  
(B) apply vocabulary related to chronology, including past, present, and future; and

# Second Grade Geology Program:

## **§112.13. Science, Grade 2, Beginning with School Year 2010-2011**

(2) Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:

(A) ask questions about organisms, objects, and events during observations and investigations;

(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:

(C) identify what a scientist is and explore what different scientists do.

(4) Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:

(A) collect, record, and compare information using tools, including computers, hand lenses, rulers, primary balances, plastic beakers, magnets, collecting nets, notebooks, and safety goggles; timing devices, including clocks and stopwatches; weather instruments such as thermometers, wind vanes, and rain gauges; and materials to support observations of habitats of organisms such as terrariums and aquariums; and

(5) Matter and energy. The student knows that matter has physical properties and those properties determine how it is described, classified, changed, and used. The student is expected to:

(A) classify matter by physical properties, including shape, relative mass, relative temperature, texture, flexibility, and whether material is a solid or liquid;

(B) compare changes in materials caused by heating and cooling;

(C) demonstrate that things can be done to materials to change their physical properties such as cutting, folding, sanding, and melting; and

(7) Earth and space. The student knows that the natural world includes earth materials. The student is expected to:

(A) observe and describe rocks by size, texture, and color;

## **§113.13. Social Studies, Grade 2, Beginning with School Year 2011-2012**

(2) History. The student understands the concepts of time and chronology. The student is expected to:

(A) describe the order of events by using designations of time periods such as historical and present times;

(B) apply vocabulary related to chronology, including past, present, and future; and

(6) Geography. The student understands the locations and characteristics of places and regions in the community, state, and nation. The student is expected to:

(B) locate places of significance, including the local community, Texas, the state capital, the U.S. capital, major cities in Texas, the coast of Texas, Canada, Mexico, and the United States on maps and globes

(8) Geography. The student understands how humans use and modify the physical environment. The student is expected to:

(A) identify ways in which people have modified the physical environment such as building roads, clearing land for urban development and agricultural use, and drilling for oil;

(17) Science, technology, and society. The student understands how science and technology have affected life, past and present. The student is expected to:

(B) explain how science and technology change the ways in which people meet basic needs.

# Second Grade Fossil Program:

## **§112.13. Science, Grade 2, Beginning with School Year 2010-2011.**

(5) Matter and energy. The student knows that matter has physical properties and those properties determine how it is described, classified, changed, and used. The student is expected to:

(B) compare changes in materials caused by heating and cooling;

(C) demonstrate that things can be done to materials to change their physical properties such as cutting, folding, sanding, and melting; and

(10) Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:

(A) observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs such as fins help fish move and balance in the water;

## **§113.13. Social Studies, Grade 2, Beginning with School Year 2011-2012.**

(2) History. The student understands the concepts of time and chronology. The student is expected to:

(A) describe the order of events by using designations of time periods such as historical and present times;

(B) apply vocabulary related to chronology, including past, present, and future; and

# Second Grade Astronomy Program:

## **§112.13. Science, Grade 2, Beginning with School Year 2010-2011.**

(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:

(B) make predictions based on observable patterns; and

(C) identify what a scientist is and explore what different scientists do.

(8) Earth and space. The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to:

(D) observe, describe, and record patterns of objects in the sky, including the appearance of the Moon.

# Second Grade Native American Program:

## **§113.13. Social Studies, Grade 2, Beginning with School Year 2011-2012.**

(2) History. The student understands the concepts of time and chronology. The student is expected to:

(A) describe the order of events by using designations of time periods such as historical and present times;

(B) apply vocabulary related to chronology, including past, present, and future; and

(4) History. The student understands how historical figures, patriots, and good citizens helped shape the community, state, and nation. The student is expected to:

(C) explain how people and events have influenced local community history.

(6) Geography. The student understands the locations and characteristics of places and regions in the community, state, and nation. The student is expected to:

(B) locate places of significance, including the local community, Texas, the state capital, the U.S. capital, major cities in Texas, the coast of Texas, Canada, Mexico, and the United States on maps and globes;

(7) Geography. The student understands how physical characteristics of places and regions affect people's activities and settlement patterns. The student is expected to:

(B) describe how natural resources and natural hazards affect activities and settlement patterns;

(C) explain how people depend on the physical environment and natural resources to meet basic needs

(17) Science, technology, and society. The student understands how science and technology have affected life, past and present. The student is expected to:

(B) explain how science and technology change the ways in which people meet basic needs.