



PLT Activities Correlated to TAKS Objectives Elementary Science Assessment

TEKS listed here are summaries from TEA's Promoting Academic Success in Science (PASS), Vertical Alignment Chart for Elementary Science Grade 5. For a copy of the chart, download an order form from www.texassciencecenter.org.

Tested TEK (5.2)

The student uses scientific methods during field and laboratory investigations. The student is expected to:

5.2 (A) plan and implement descriptive and simple experimental investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology;

PLT Activity

51 Make Your Own Paper

60 Publicize It!

5.2 (B) collect information by observing and measuring;

PLT Activity

2 Get in Touch with Trees

54 I'd Like to Visit a Place Where...

65 Bursting Buds

20 Environmental Exchange Box

64 Looking at Leaves

78 Signs of Fall

21 Adopt a Tree

5.2 (C) analyze and interpret information to construct reasonable explanations from direct and indirect evidence;

PLT Activity

3 Peppermint Beetle

31 Plant a Tree

58 There Ought to Be a Law

23 The Fallen Log

56 We Can Work It Out

69 Forest for the Trees

5.2 (D) communicate valid conclusions; and

PLT Activity

24 Nature's Recyclers

75 Tipi Talk

96 Improve Your Place

5.2 (E) construct simple graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate information.

PLT Activity

16 Pass the Plants, Please

48 Field, Forest, and Stream

92 A Look at Lifestyles

32 A Forest of Many Uses

57 Democracy in Action

93 Paper Civilizations

38 Every Drop Counts

82 Resource-Go-Round

95 Did You Notice?

Tested TEK (5.3) (4.3) (3.3)

The student uses critical thinking and scientific problem solving to make informed decisions. The student is expected to:

(B) draw inferences based on information {related to promotional materials} for products and services; and

PLT Activity

59 Power of Print

84 A Peek at Packaging

Tested TEK (5.4)

The student knows how to use a variety of tools and methods to conduct science inquiry. The student is expected to:

(A) collect and analyze information using tools including calculators, microscopes, {cameras, sound recorders, computers}, hand lenses, rulers, thermometers, compasses, balances, {hot plates}, meter sticks, timing devices, magnets, collecting nets, and safety goggles; and

PLT Activity

4 Sounds Around

66 Germinating Giants

67 How Big is Your Tree?

Tested TEK (5.5)

The student knows that a system is a collection of cycles, structures, and processes that interact. The student is expected to:

- (A) describe some cycles, structures, and processes that are found in a simple system;

PLT Activity

42 Sunlight and Shades of Green # 86 Our Changing World

Tested TEK (5.6)

The student knows that some change occurs in cycles. The student is expected to:

- (C) describe and compare life cycles of plants and animals.

PLT Activity

45 Web of Life # 79 Tree Lifecycle

Tested TEK (5.9)

The student knows that adaptations may increase the survival of members of a species. The student is expected to:

- 5.9 (A) compare the adaptive characteristics of species that improve their ability to survive and reproduce in an ecosystem;

PLT Activity

8 The Forest of S.T. Shrew # 28 Air Plants # 88 Life on the Edge
10 Charting Diversity # 43 Have Seeds, Will Travel
26 Dynamic Duos # 77 Trees in Trouble

- 5.9 (B) analyze and describe adaptive characteristics that resulting an organism’s unique niche in an ecosystem; and

PLT Activity

5 Poet-Tree # 25 Birds and Worms # 49 Tropical Treehouse
7 Habitat Pen Pals # 41 How Plants Grow # 61 The Closer You Look
11 Can it Be Real? # 46 School Yard Safari # 63 Tree Factory

5.9 (C) predict some adaptive characteristics required for survival and reproduction by an organism in an ecosystem.

PLT Activity

9 Planet of Plenty

27 Every Tree for Itself

80 Nothing Succeeds Like
Succession

22 Trees as Habitats

Tested TEK (5.10)

The student knows that likenesses between offspring and parents can be inherited or learned. The student is expected to:

5.10 (A) identify traits that are inherited from parent to offspring in plants and animals;

PLT Activity

68 Name that Tree

5.10 (B) give examples of learned characteristics that result from the influence of the environment.

PLT Activity

17 People of the Forest

47 Are Vacant Lots Vacant?

Tested TEK (3.8)

The student knows that living organisms need food, water, light, air, a way to dispose of waste, and an environment in which to live.

The student is expected to:

(A) observe and describe the habitats of organisms within an ecosystem;

PLT Activity

7 Habitat Pen Pals

46 School Yard Safari

47 Tropical Treehouse

22 Trees As Habitats

3.8 (B) observe and identify organisms with similar needs that compete with one another for resources such as oxygen, water, food, or space;

PLT Activity

6 Picture This!

28 Air Plants

41 How Plants Grow

8 The Forest of S.T. Shrew

3.8 (C) describe environmental changes in which some organisms would thrive, become ill, or perish;

PLT Activity

36 Pollution Search

77 Trees in Trouble

80 Nothing Succeeds Like

48 Field, Forest, and Stream

70 Soil Stories

Succession

3.8 (D) describe how living organisms modify their physical environment to meet their needs such as beavers building a dam or humans building a home.

PLT Activity

74 People, Places, Things

Tested TEK (2.9)

The student knows that living organisms have basic needs. The student is expected to:

(A) identify the external characteristics of different kinds of plants and animals that allow their needs to be met;

PLT Activity

8 The Forest of S.T.Shrew

42 Sunlight and Shades of Green

79 Tree Lifecycle

27 Every Tree for Itself

77 Trees in Trouble

2.9 (B) compare and give examples of the ways living organisms depend on each other and on their environments.

PLT Activity

18 Tale of the Sun

46 School Yard Safari

74 People, Places, Things

22 Trees as Habitats

47 Are Vacant Lots Vacant?

41 How Plants Grow

49 Tropical Treehouse

Tested TEK (5.5)

The student knows that a system is a collection of cycles, structures, and processes that interact. The student is expected to:

- (A) describe some cycles, structures, and processes that are found in a simple system;

PLT Activity

42 Sunlight and Shades of Green

86 Our Changing World

Tested TEK (5.6)

The student knows that some change occurs in cycles. The student is expected to:

- (B) identify the significance of the water, carbon, and nitrogen cycles.

PLT Activity

44 Water Wonders

Tested TEK (5.11)

The student knows that certain past events affect present and future events. The student is expected to:

- (A) identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow;

PLT Activity

40 Then and Now

- 5.11 (B) draw conclusions about what happened before using data such as from tree-growth rings and sedimentary rock sequences;

PLT Activity

76 Tree Cookies

- 5.11 (C) identify past events that led to the formation of the Earth's renewable, non-renewable, and inexhaustible resources.

PLT Activity

15 A Few of Many Favorite Things

Tested TEK (4.11)

The student knows that the natural world includes earth materials and objects in the sky. The student is expected to:

4.11 (B) summarize the effects of the oceans on land;

PLT Activity

44 Water Wonders

4.11 (C) identify the Sun as the major source of energy for the Earth and understand its role in the growth of plants, in the creation of winds, and in the water cycle.

PLT Activity

18 Tale of the Sun

27 Every Tree for Itself

42 Sunlight and Shades of Green

Tested TEK (3.6)

The student knows that forces cause change. The student is expected to:

3.6 (B) identify that the surface of the Earth can be changed by forces such as earthquakes and glaciers.

PLT Activities

40 Then and Now

Tested TEK (3.11)

The student knows that the natural world includes earth materials and objects in the sky. The student is expected to:

(D) describe the characteristics of the Sun.

PLT Activity

18 Tale of the Sun