

PROJECT LEARNING TREE
PREKINDERGARTEN AND KINDERGARTEN SCIENCE:
Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 36, 81, 87	K.1.B (p.A-2) Learn how to conserve resources and materials
16, 21	K.2.B (p.A-2) Plan and conduct simple descriptive investigations
20	K.2.C (p.A-2) Gather information using simple equipment and tools to extend the senses
54	K.2.E (p.A-2) Communicate findings about simple investigations
1, 25, 49, 67	K.4.A (p.A-2) Identify and use senses as tools of observation
65	K.4.B (p.A-2) Make observation using tools including hand lenses, balances, cups, bowls, and computers
2, 3, 95	K.5.A (p.A-2) Describe properties of objects and characteristics of organisms
6	K.6.A (p.A-3) Sort organisms and objects into groups according to their parts and describe how the groups are formed
43, 61, 62, 63	K.6.B (p.A-3) Record observations about parts of plants including leaves, roots, stems, and flowers
64	K.6.C (p.A-3) Record observations about parts of plants including leaves, roots, stems, and flowers
4	K.7.A (p.A-3) Observe, describe, and record changes in size, mass, color, position, quantity, time, temperature, sound, and movement
78	K.7.C (p.A-3) Observe and record weather changes from day to day and over seasons
79	K.7.D (p.A-3) Observe and record stages in the life cycle of organisms in their natural environment
27	K.9.A (p.A-3) Identify basic needs of living organisms
18, 22, 46, 47, 74	K.9.B (p.A-3) Give examples of how living organisms depend on each other
41	K.9.C (p.A-4) Identify ways that the Earth can provide resources for life

PROJECT LEARNING TREE

GRADE ONE SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 30, 36, 37, 81, 87	1.1.B (p.A-5) Learn how to use and conserve resources and materials
21, 51	1.2.B (p.A-5) Plan and conduct simple investigations
3, 20	1.2.C (p.A-5) Gather information using simple equipment and tools to extend the senses
24	1.2.E (p.A-5) Communicate explanations about investigations
31	1.3.A (p.A-5) Make decisions using information
1, 16, 54	1.4.B (p.A-5) Record and compare collected information
65, 67	1.4.C (p.A-5) Measure organisms and objects and parts of organisms and objects, using non-standard units such as paper clips, hands, and pencils
32	1.5.A (p.A-5) Sort objects and events based on properties and patterns
2, 6, 25, 43, 49, 61, 62, 63, 64	1.6.A (p.A-5) Sort objects and events based on properties and patterns
4	1.7.A(p.A-6) Observe, describe, and record changes in size, mass, color, position, quantity, time, temperature, sound, and movement
78, 95	1.7.C (p.A-6) Observe and record changes in weather from day to day and over seasons
76, 79	1.7.D (p.A-6) Observe and record changes in the life cycle of organisms
8, 27, 48, 77	1.9.A (p.A-6) Identify characteristics of living organisms that allow their basic needs to be met
18, 22, 41, 46, 47, 74	1.9.B (p.A-6) Compare and give examples of the ways living organisms depend on each other for their basic needs

PROJECT LEARNING TREE

GRADE TWO SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 30, 36, 37, 81, 87, 89	2.1.B (p.A-7) Learn how to use and conserve resources and materials
21	2.2.B (p.A-7) Plan and conduct simple investigations
3, 20	2.2.D (p.A-8) Gather information using simple equipment and tools to extend the senses
16, 24, 51, 54	2.2.F (p.A-8) Communicate explanations about investigations
31	2.3.A (p.A-8) Make decisions using information
1	2.4.A.(p.A-2) Identify and use senses as tools of observation
65, 67	2.4.B (p.A-8) Measure and compare organisms and objects and parts of organisms and objects, using standard and non-standard units
2, 6, 25, 32, 76	2.5.A (p.A-8) Classify and sequence organisms, objects, and events based on properties and patterns
43, 61, 62, 63, 64, 68	2.6.C (p.A-9) Observe and record the functions of plant parts
4, 48	2.7.A (p.A-9) Observe, measure, record, analyze, predict, illustrate changes in size, mass, temperature, color, position, quantity, sound, and movement
78, 95	2.7.D (p.A-9) Observe, measure, and record changes in weather, the night sky, and seasons
8, 27, 42, 77, 79	2.9.A (p.A-9) Identify the external characteristics of different kinds of plants and animals that allow their needs to be met
18, 22, 41, 46, 47, 49, 74	2.9.B (p.A-9) Compare and give examples of the ways living organisms depend on each other and on their environments

PROJECT LEARNING TREE

GRADE THREE SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 30, 37, 81, 87, 89	3.1.B (p.A-10) Make wise choices in the use and conservation of resources and the disposal or recycling of materials
51	3.2.A (p.A-11) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
20, 54, 78,	3.2.B (p.A-11) Collect information by observing and measuring
3, 31, 58, 76	3.2.C (p.A-11) Analyze and interpret information to construct reasonable explanations from direct and indirect evidence
24	3.2.D (p.A-11) Communicate valid conclusions
16, 32, 95	3.2.E (p.A-11) Construct simple graphs, tables, maps, and charts to organize, examine and evaluate information
59	3.3.B (p.A-11) Draw inferences based on information related to promotional materials for products and services
34	3.3.D (p.A-11) Evaluate the impact of research on scientific thought, society, and the environment
1, 4, 65, 67	3.4.A (p.A-11) Collect and analyze information using tools including calculators, microscopes, camera, safety goggles, sound recorders, clocks, computers, thermometers, hand lenses, meter sticks, rulers, balances, magnets, and compasses
40	3.6.B (p.A-12) Identify that the surface of the Earth can be changed by forces such as earthquakes and glaciers
7, 22, 46, 47, 49	3.8.A (p.A-12) Observe and describe the habitats of organisms within an ecosystem
6, 8, 28, 41	3.8.B (p.A-12) Observe and identify organisms with similar needs that compete with one another for resources such as oxygen, water, food or space
36, 48, 77, 79, 80	3.8.C (p.A-12) Describe environmental changes in which some organisms would thrive, become ill, or perish
74	3.8.D (p.A-12) Describe how living organisms modify their physical environment to meet their needs such as beavers building a dam or humans building a home
25, 27, 43	3.9.A (p.A-12) Observe and identify characteristics among species that allow each to survive and reproduce
2, 5, 21, 42, 61, 62, 63, 64, 68	3.10.A (p.A-13) Identify some inherited traits of plants
18	3.11.D (p.A-13) Describe the characteristics of the Sun

PROJECT LEARNING TREE

GRADE FOUR SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 13, 14, 30, 36, 37, 81, 83, 87, 89, 90	4.1.B (p.A-14) Make wise choices in the use and conservation of resources and the disposal or recycling of materials
51	4.2.A (p.A-14) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
2, 20, 21, 54, 64, 65, 78	4.2.B (p.A-14) Collect information by observing and measuring
3, 23, 31, 58, 69	4.2.C (p.A-14) Analyze and interpret information to construct reasonable explanations from direct and indirect evidence
24, 75	4.2.D (p.A-14) Communicate valid conclusions
15, 16, 32, 38, 82, 93, 95	4.2.E (p.A-14) Construct simple graphs, tables, maps, and charts to organize, examine, and evaluate information
59	4.3.B (p.A-14) Draw inferences based on information related to promotional materials for products and services
34, 53	4.3.D (p.A-15) Evaluate the impact of research on scientific thought, society, and the environment
91	4.3.E (p.A-15) Connect Grade 4 science concepts with the history of science and contributions of scientists
4, 66, 67	4.4.A (p.A-15) Collect and analyze information using tools including calculators, microscopes, camera, safety goggles, sound recorders, clocks, computers, thermometers, hand lenses, meter sticks, rulers, balances, magnets, and compasses
5, 9, 22, 45, 46, 47, 49	4.5. A (p.A-15) Identify and describe the roles of some organisms in living systems such as plants in a school yard, and parts in nonliving systems such as a light bulb in a circuit
7, 28, 43, 68, 77, 79, 80, 88	4.8.A (p.A-16) Identify characteristics that allow members within a species to survive and reproduce
8, 10, 11, 25, 61, 62, 63	4.8.B (p.A-16) Compare adaptive characteristics of various species
40, 41, 76, 48	4.9.A (p.A-16) Distinguish between inherited traits and learned characteristics
44	4.11.B (p.A-16) Summarize the effects of the oceans on land
18, 27, 42	4.11.C (p.A-16) Identify the Sun as a 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

PROJECT LEARNING TREE

GRADE FIVE SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 13, 14, 30, 36, 37, 52, 73, 81, 83, 89, 90	5.1.B (p.A-17) Make wise choices in the use and conservation of resources and the disposal or recycling of materials
51, 60	5.2.A (p.A-18) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
2, 20, 21, 54, 64, 65, 78, 85	5.2.B (p.A-18) Collect information by observing and measuring
3, 23, 31, 56, 58, 69	5.2.C (p.A-18) Analyze and interpret information to construct reasonable explanations from direct and indirect evidence
24, 75, 96	5.2.D (p.A-18) Communicate valid conclusions
16, 32, 38, 48, 57, 82, 92, 93, 95	5.2.E (p.A-18) Construct simple graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate information
59, 84	5.3.B (p.A-18) Draw inferences based on information related to promotional materials for products and services
34, 53	5.3.D (p.A-18) Evaluate the impact of research on scientific thought, society, and the environment
91	5.3.E (p.A-18) Connect Grade 5 science concepts with the history of science and contributions of scientists
4, 66, 67	5.4.A (p.A-19) Collect and analyze information using tools including calculators, microscopes, camera, sound recorders, computers, hand lenses, rulers, thermometers, compasses, balances, hot plates, meter sticks, timing devices, magnets, collecting nets, and safety goggles
42, 86	5.5.A (p.A-19) Describe some cycles, structures, and processes that are found in a simple system
44	5.6.B (p.A-19) Identify the significance of the water, carbon, and nitrogen cycles
45, 79	5.6.C (p.A-19) Describe and compare life cycles of plants and animals
8, 10, 26, 28, 43, 77, 88	5.9.A (p.A-20) Compare the adaptive characteristics of species that improve their ability to survive and reproduce in an ecosystem
5, 7, 11, 25, 41, 46, 49, 61, 63	5.9.B (p.A-20) Analyze and describe adaptive characteristics that result in an organism's unique niche in an ecosystem
9, 22, 27, 80	5.9.C (p.A-20) Predict some adaptive characteristics required for survival and reproduction by an organism in an ecosystem

PROJECT LEARNING TREE

GRADE FIVE SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
17, 47	5.10.B (p.A-20) Give examples of learned characteristics that result from the influence of the environment
40	5.11.A (p.A-20) Identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow
76	5.11.B (p.A-20) Draw conclusions about “what happened before” using data such as from tree-growth rings and sedimentary rock sequences
15	5.11.C (p.A-21) Identify past events that led to the formation of the Earth’s renewable, non-renewable, and inexhaustible resources
70	5.12.B (p.A-21) Describe processes responsible for the formation of coal, oil, gas, and minerals
18	5.12.D (p.A-21) Identify gravity as the force that keeps planets in orbit around the Sun and the moon in orbit around the Earth

PROJECT LEARNING TREE

GRADE SIX SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
12, 13, 14, 30, 37, 52, 73, 81, 83, 89, 90, 94	6.1.B (p.B-2) Make wise choices in the use and conservation of resources and disposal or recycling of materials
51, 60, 72	6.2.A (p.B-2) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
2, 5, 20, 21, 54, 64, 65, 78, 85	6.2.B (p.B-2) Collect data by observing and measuring
3, 31, 56, 58, 69	6.2.C (p.B-2) Analyze and interpret information to construct reasonable explanations from direct and direct evidence
24, 75, 96	6.2.D (p.B-2) Communicate valid conclusions
16, 32, 38, 48, 55, 57, 82, 92, 93, 95	6.2.E (p.B-2) Construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data
19, 33	6.3.A (p.B-2) Analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information
59, 84	6.3.B (p.B-2) Draw inferences based on information related to promotional materials for products and services
34, 53	6.3.D (p.B-2) Evaluate the impact of research on scientific thought, society, and the environment
91	6.3.E (p.B-2) Connect Grade 6 science concepts with the history of science and contributions of scientists
4, 66, 67	6.4.A (p.B-3) Collect, analyze, and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers, and computer probes
40	6.6.C (p.B-3) Identify forces that shape features of the Earth including uplifting, movement of water, and volcanic activity
23, 44, 70	6.8.B (p.B-4) Explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin
15, 39	6.9.C (p.B-4) Research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible

PROJECT LEARNING TREE

GRADE SEVEN SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
14, 52, 73, 81, 83, 89, 90, 94	7.1.B (p.B-6) Make wise choices in the use and conservation of resources and disposal or recycling of materials
51, 60, 72	7.2.A (p.B-6) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
5, 20, 21, 54, 64, 67, 85	7.2.B (p.B-6) Collect data by observing and measuring
23, 31, 56, 58, 69, 76	7.2.C (p.B-6) Organize, analyze, make inferences, and predict trends from direct and indirect evidence
75, 96	7.2.D (p.B-6) Communicate valid conclusions
4, 16, 32, 38, 48, 50, 55, 57, 82, 92, 93, 95	7.2.E (p.B-6) Construct graphs, tables, maps, and charts to organize, examine, and evaluate information
19, 38, 59, 84	7.3.A (p.B-7) Analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information
53	7.3.D (p.B-7) Evaluate the impact of research on scientific thought, society, and the environment
91	7.3.F (p.B-7) Connect Grade 7 science concepts with the history of science and contributions of scientists
39	7.8.A (p.B-8) Illustrate examples of potential and kinetic energy in everyday life such as objects at rest, movement of geologic faults, and falling water
27, 29	7.9.B (p. B-8) Describe how organisms maintain stable internal conditions while living in changing external environments
17, 26, 43, 77, 88	7.10.B (p.B-9) Compare traits of organisms of different species that enhance their survival and reproduction
42	7.11.B (p.B-9) Identify responses in organisms to external stimuli found in the environment such as the presence or absence of light
47, 70, 71	7.12.B (p.B-9) Observe and describe how organisms including producers, consumers, and decomposers live together in an environment and use existing resources
10, 11, 22, 41, 45, 68	7.12.C (p.B-9) Describe how different environments support different varieties of organisms
49, 80	7.12.D (p.B-9) Observe and describe the role of ecological succession in ecosystems
40, 86	7.14.A (p.B-9) describe and predict the impact of different catastrophic events on the earth

PROJECT LEARNING TREE

GRADE SEVEN SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
44	7.14.B (p.B-9) Analyze effects of regional erosional deposition and weathering
15, 35	7.14.C (p.B-10) Make inferences and draw conclusions about effects of human activity on the Earth's renewable, non-renewable, and inexhaustible resources
35	7.14.C (p.B-10) Make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources

PROJECT LEARNING TREE

GRADE EIGHT SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
14, 15, 52, 73, 81, 83, 90, 94	8.1.B (p.B-11) Make wise choices in the use and conservation of resources and the disposal or recycling of materials
51, 60	8.2.A (p.B-11) Plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
5, 20, 21, 54, 64, 67, 85	8.2.B (p.B-11) Collect data by observing and measuring
23, 31, 556, 58, 69	8.2.C (p.B-11) Organize, analyze, make inferences, and predict trends from direct and indirect evidence
75, 96	8.2.D (p.B-11) Communicate valid conclusions
16, 32 38, 50, 55, 57, 82, 92, 93, 95	8.2.E (p.B-11) Construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate
19, 33, 72	8.3.A (p.B-11) Analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information
59, 84	8.3.B (p.B-11) Draw inferences based on information related to promotional materials for products and services
53	8.3.D (p.B-11) Evaluate the impact of research on scientific thought, society, and the environment
91	8.3.E (p.B-11) Connect Grade 8 science concepts with the history of science and contributions of scientists
4	8.4.A (p.B-12) Collect, record, and analyze information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, computers, computer probes, water test kits, and time devices
22, 45, 47	8.6.C (p.B-12) Describe interactions within ecosystems
39, 44, 86	8.10.B (p.B-13) Describe interactions among solar, weather, and ocean systems
10, 11, 26 27, 29, 41, 42, 43, 48, 49, 68, 71, 76, 77, 80, 88	8.11.A (p.B-12) Identify that change in environmental conditions can affect the survival of individual and of species
17	8.11.B (p.B-13) Distinguish between inherited traits and other characteristics that result from interactions with the environment

PROJECT LEARNING TREE

GRADE EIGHT SCIENCE: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Science
40	8.14.A (p.B-14) Predict land features resulting from gradual changes such as mountain building, beach erosion, land subsidence, and continental drift
35, 70	8.14.C (p.B-14) Describe how human activities have modified soil, water, and air quality