

Wyoming Project Learning Tree

Correlation Key for Grades K-4

Wyoming Science Content and Performance Standards

Introduction: The purpose of this document is to provide Wyoming educators who use the *Project Learning Tree Pre-K - 8 Environmental Educational Activity Guide* (2006 edition) with a reference guide in how PLT's activities correlate to the Wyoming Science Content and Performance Standards for grades K-4. Educators may use PLT activities to teach or assess mastery of science skills in unifying concepts and processes, scientific inquiry, recognizing the nature and history of science, and integration of those areas.

Key to symbols and abbreviations:

- * Concept is a main focus of the activity or teaches to the standard.
- o Concept is part of the focus of the activity and supports the standard.
- n/c No correlation
- SC Science

SCIENCE, Grades K-4

SC 1. CONCEPTS AND PROCESSES:

In the context of unifying concepts and processes, students develop an understanding of scientific content through inquiry.

LIFE SYSTEMS

SC 4.1.1: Characteristics of Organisms: Students describe observable characteristics of living things, including structures that serve specific functions and everyday behaviors.

1	Shape of Things	o	K-3
2	Get in Touch with Trees	*	K-4
3	Peppermint Beetle	*	K-4
4	Sounds Around	*	1-6
5	Poet Tree	*	3-8
6	Picture This	*	K-3
9	Planet Diversity	o	4-6
10	Charting Diversity	*	4-8
11	Can It Be Real?	*	4-8
16	Pass the Plants	o	K-8
21	Adopt a Tree	o	K-8

SC 4.1.1: (continued)

22	Trees As Habitats	o	K-8
23	Fallen Log	*	4-8
24	Nature's Recyclers	o	1-6
25	Birds and Worms	*	K-6
27	Every Tree for Itself	*	K-8
28	Air Plants	o	3-6
41	How Plants Grow	*	4-8
42	Shades of Green	*	2-8
43	Have Seeds Will Travel	*	K-8
46	School Yard Safari	*	K-5
47	Are Vacant Lots Vacant?	o	K-8
49	Tropical Treehouse	o	K-8
61	The Closer You Look	*	K-6
62	To Be a Tree	o	K-4
63	Tree Factory	*	K-6
64	Looking at Leaves	o	K-8
65	Bursting Buds	o	K-6
68	Name that Tree	*	2-8
76	Tree Cookies	o	1-8
78	Signs of Fall	o	K-6

SC 4.1.2: Life Cycles of Organisms: Students sequence life cycles of living things, and recognize that plants and animals resemble their parents.

21	Adopt a Tree	o	K-8
41	How Plants Grow	*	4-8
43	Have Seeds Will Travel	o	K-8
65	Bursting Buds	o	K-6
78	Signs of Fall	o	K-6
79	Tree Life Cycle	o	K-6

SC 4.1.3: Organisms and Their Environments: Students show connections between living things, their basic needs, and the environments.

3	Peppermint Beetle	*	K-4
4	Sounds Around	*	1-6
6	Picture This	*	K-3
7	Habitat Pen Pals	*	3-6
8	Forest of S.T. Shrew	*	1-6
9	Planet Diversity	*	4-6
10	Charting Diversity	*	4-8
11	Can It Be Real?	*	4-8
13	We All Need Trees	*	K-6

SC 4.1.3: (continued)

18	Tale of the Sun	o	K-6
20	Environmental Exchange Box	*	K-8
21	Adopt a Tree	o	K-8
22	Trees as Habitats	*	K-8
23	Fallen Log	*	4-8
24	Nature's Recyclers	*	1-6
25	Birds and Worms	*	K-6
27	Every Tree for Itself	o	K-8
30	Three Cheers for Trees	o	1-6
31	Plant a Tree	o	1-8
32	Forest of Many Uses	o	1-8
36	Pollution Search	o	K-6
37	Reduce, Reuse, Recycle	o	1-6
38	Every Drop Counts	o	4-8
39	Energy Sleuths	o	K-8
40	Then and Now	o	3-6
41	How Plants Grow	*	4-8
42	Shades of Green	*	2-8
43	Have Seeds Will Travel	o	K-8
45	Web of Life	*	4-8
46	School Yard Safari	*	K-5
47	Are Vacant Lots Vacant?	o	K-8
48	Field Forest and Stream	o	1-8
49	Tropical Treehouse	o	K-8
66	Germinating Giants	o	4-6
76	Tree Cookies	o	1-8
77	Trees in Trouble	o	1-8
80	Nothing Succeeds Like Succession	*	3-6
81	Living with Fire	o	K-8
87	Earth Manners	o	K-4
88	Life on the Edge	o	4-8

EARTH, SPACE, AND PHYSICAL SYSTEMS

SC 4.1.4: Properties of Earth Materials: Students investigate water, air, rocks, and soils to compare basic properties of earth materials.

14	Renewable or Not	o	4-8
28	Air Plants	o	3-6
38	Every Drop Counts	o	4-8
44	Water Wonders	*	4-8
48	Field Forest and Stream	*	1-8

SC 4.1.5: Objects in the Sky: Students describe observable objects in the sky and their patterns of movement.

n/c

SC 4.1.6: Changes in Earth and Sky: Students describe observable changes in earth and sky, including rapid and gradual changes to the earth's surface, and daily and seasonal changes in the weather.

78 Signs of Fall o K-6

SC 4.1.7: Properties of Objects: Students classify objects by properties that can be observed, measured, and recorded, including color, shape, size, weight, volume, texture, and temperature.

1	Shape of Things	*	K-3
2	Get in Touch with Trees	*	K-4
4	Sounds Around	*	1-6
6	Picture This	*	K-3
13	We All Need Trees	o	K-6
14	Renewable or Not	o	4-8
15	A Few of My Favorite Things	o	4-8
16	Pass the Plants	o	K-8
21	Adopt a Tree	o	K-8
43	Have Seeds Will Travel	o	K-8
61	The Closer You Look	o	K-6
64	Looking at Leaves	o	K-8
66	Germinating Giants	o	4-6
67	How Big is Your Tree	o	K-8

SC 4.1.8: Changes in States of Matter: Students demonstrate that the processes of heating and cooling can change matter from one state to another.

44	Water Wonders	o	4-8
51	Make Your Own Paper	o	1-8

SC 4.1.9: Physical Phenomena: Students investigate physical phenomena commonly encountered in daily life, including light, heat, electricity, sound, and magnetism.

4	Sounds Around	*	1-6
81	Living with Fire	o	K-8

SC 4.1.10: Position and Motion of Objects: Students demonstrate that pushing and pulling can change the position and motion of objects.

n/c

SC 2. SCIENCE AS INQUIRY: Students demonstrate knowledge, skills, and habits of mind necessary to safely perform scientific inquiry.

SC 4.2.1: Students research answers to science questions and present findings through appropriate means.

2	Get in Touch with Trees	o	K-4
3	Peppermint Beetle	o	K-4
4	Sounds Around	*	1-6
7	Habitat Pen Pals	*	3-6
9	Planet Diversity	*	4-6
10	Charting Diversity	o	4-8
11	Can It Be Real?	o	4-8
13	We All Need Trees	o	K-6
14	Renewable or Not	o	4-8
15	A Few of My Favorite Things	o	4-8
16	Pass the Plants	o	K-8
20	Environmental Exchange Box	o	K-8
21	Adopt a Tree	o	K-8
22	Trees as Habitats	*	K-8
23	Fallen Log	o	4-8
24	Nature's Recyclers	o	1-6
25	Birds and Worms	*	K-6
32	Forest of Many Uses	o	1-8
39	Energy Sleuths	*	K-8
41	How Plants Grow	*	4-8
42	Shades of Green	o	2-8
45	Web of Life	o	4-8
73	Waste Watchers	o	4-8
76	Tree Cookies	o	1-8
77	Trees in Trouble	*	1-8
81	Living with Fire	o	K-8
82	Resource-Go-Round	o	4-8

SC 4.2.2: Students use the inquiry process to conduct simple scientific investigations.

4	Sounds Around	*	K-6
9	Planet Diversity	*	4-6
21	Adopt a Tree	o	K-8

SC 4.2.2: (continued)

22	Trees as Habitats	*	K-8
24	Nature's Recyclers	*	1-6
25	Birds and Worms	*	K-6
41	How Plants Grow	*	4-8
42	Shades of Green	o	2-8
73	Waste Watchers	o	4-8
76	Tree Cookies	o	1-8
77	Trees in Trouble	o	1-8
80	Nothing Succeeds Like Succession	*	3-6
81	Living with Fire	o	K-8

SC 4.2.3: Students identify and use appropriate scientific equipment.

9	Planet Diversity	o	4-6
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SC 4.2.4: Students properly use safety equipment and recognize hazards and safety symbols while practicing standard safety procedures.

9	Planet Diversity	o	4-6
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SC 3. HISTORY AND NATURE OF SCIENCE IN PERSONAL AND SOCIAL DECISIONS.

Students recognize the nature of science, its history, and its connections to personal, social, economic, and political decisions. Historically, scientific events have had significant impacts on our cultural heritage.

SC 4.3.1: Students recognize the nature and history of science. (A) Discuss how scientific ideas change over time. (B) Describe contributions of scientists.

18	Tale of the Sun	o	K-6
91	In the Good Old Days	*	4-8

SC 4.3.2: Students recognize how scientific information is used to make decisions. (A) Identify and describe local science issues, such as environmental hazards or resource management. (B) Suggest feasible solutions and personal action plans to address an identified issue.

13	We All Need Trees	o	K-6
14	Renewable or Not	*	4-8
15	A Few of My Favorite Things	o	4-8
16	Pass the Plants	o	K-8

SC 4.3.2: (continued)

20	Environmental Exchange Box	o	K-8
28	Air Plants	o	3-6
30	Three Cheers for Trees	o	1-6
32	Forest of Many Uses	*	1-8
34	Who Works In This Forest	*	3-6
36	Pollution Search	*	K-6
37	Reduce, Reuse, Recycle	*	1-6
38	Every Drop Counts	*	4-8
39	Energy Sleuths	o	K-8
49	Tropical Treehouse	o	K-8
53	On the Move	o	K-8
54	I'd Like to Visit a Place Where....	o	K-8
69	Forest for the Trees	o	4-8
73	Waste Watchers	o	4-8
81	Living with Fire	o	K-8
82	Resource-Go-Round	o	4-8
87	Earth Manners	o	K-4
89	Trees for Many Reasons	o	2-8
91	In the Good Old Days	o	4-8

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