

PROJECT LEARNING TREE'S
PREK-8 ACTIVITY GUIDE
AND
ENERGY & SOCIETY KIT
TO NH FRAMEWORKS FOR
SCIENCE LITERACY (K-12)



New Hampshire Project Learning Tree

March 1998

Revised September 2006

This handbook is a project of New Hampshire Project Learning Tree, a private non-profit organization committed to the environmental education of our youth. The handbook is dedicated to the hundreds of school teachers and administrators who are responding to the state's move to standards-based education. Yours is not an easy job; we hope this handbook helps to lighten the load.

We would like to hear from our readers about how you have used the handbook and whether you find it accurate and clear. You can reach NH Project Learning Tree at

54 Portsmouth St., Concord, NH 03301

Phone: 603-226-0160 or 800-677-1499.

Fax: 603-228-0423.

Email: info@nhplt.org.

Website: <http://www.nhplt.org>

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March 1998.

September 2006.

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METHODOLOGY

2006 Correlation Revision (Science)

NH's curriculum standards have undergone substantial change in response to the federal No Child Left Behind Act. The former state standards were written for the end of grades three, six and ten. To meet new formalized assessment requirements, the NH Frameworks for Science Literacy (K-12), approved in June 2006, address content and skills, and are divided into grade spans for K-2, 3-4, 5-6, 7-8, 9-11 (basic literacy) and 11-12 (advanced literacy).

The NH Frameworks for Science Literacy (K-12) contain the following components:

- **Domain**: There are four domains within the science curriculum frameworks: Earth Space Science (ESS), Life Science (LS), Physical Science (PS), and Science Process Skills (SPS).
- **Strand**: There are five strands, or enduring knowledge statements, in LS and four each in domains of PS and ESS. Strands are the SAME for each grade span although not all components may be seen in each grade span. (Example: LS1 – All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species.))
- **Stem**: These are the categories of ideas. Stems are common throughout all grade spans. (Example: 1. Classification)
- **Grade-span Expectations (Proficiencies)**: These are what all students should know and be able to do within a specific grade range. The ranges include: K-2, 3-4, 5-6, 7-8, 9-11 (basic literacy level) 11-12 (advanced level).

For each strand, the associated proficiencies were consulted to help inform the degree of correlation of the broader strand with each activity; a match of at least one proficiency was required to indicate a correlation. Three elements of each activity will help focus the correlation process.

- The subject identifier in the sidebar determined whether the activity was correlated to the science frameworks; if science is not listed the activity was not be addressed.
- The grade levels noted in the sidebar determined which grade span proficiencies were examined.
- The description of activity objectives in the sidebar informed which curriculum and proficiency standard(s) are related to the activity.

Note: Any attempt to correlate universal curriculum standards and a single curriculum program involves subjectivity. Two important steps were taken to limit bias. First, the author applied this rigorous methodology to determine correlation. Second, drafts were peer-reviewed by PLT-trained elementary, middle, and high school teachers. Reviewers most common finding was that PLT activities lend themselves to modification, and in so doing, would meet many more standards than indicated. NHPLT chose, however, to correlate based on a strict interpretation of the activities, as they are written.

HOW TO USE THIS HANDBOOK

The purpose of this handbook is to assist educators who are reviewing and revising their science curricula. The primary audience is classroom teachers, curriculum specialists, and curriculum committees.

The handbook is divided into three sections, as follows:

- **PART I lists each PLT activity in the *PreK-8 Activity Guide* and *Energy & Society Kit* followed by the standards from the NH Frameworks for Science Literacy (K-12) with which it is aligned.**

Use Part I if you have a particular PLT activity in mind and want to know how it correlates with the state curriculum standards. Or, to find an appropriate activity to meet your needs, use PLT's "Topic Index" to select several potential activities to supplement your unit. To determine which state standards correlate with these activities, find the number and name of each activity in this handbook. Select an activity based on your objectives for your unit and the degree to which the activity correlates with appropriate standards. Each PLT activity is indicated by activity number and name and is followed by the strand and stem for each framework that is correlated to that activity.

- **PART II lists individual state curriculum standards from the NH Frameworks for Science Literacy (K-12), followed by the PLT activities that meet the individual standards.**

Use Part II if you have a particular curriculum standard in mind and want to find an activity that meets this standard. Then read about the activities in your PLT guide to determine the one most suitable for your particular situation.

All science domains (i.e. Life Science), strands (i.e. All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species) and stems (i.e. 1- Classification) are listed. Following each standard, the PLT activities aligned with that standard are identified by number and name.

- **Part III is a chart that lists each PLT activity in the *PreK-8 Activity Guide* and *Energy & Society Kit* and the standards from the NH Frameworks for Science Literacy (K-12) with which each activity is aligned.**

Note: Throughout this handbook, the domains are abbreviated as follows:

ESS – Earth Space Science
LS – Life Science
PS – Physical Science
SPS – Science Process Skills

**Charts Correlating
PLT PreK-8 Guide and
Energy & Society Kit
with
NH Frameworks for
Science Literacy (K-12)**

*A Handbook Linking Project Learning Tree's PreK-8 Activity Guide and Energy & Society Kit to
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Earth Space Science*

	ESS1							ESS2				ESS3			ESS4			
PLT PreK-8 Activity	1	2	3	4	5	6	7	1	2	3	4	1	2	3	1	2	3	4
1: The Shape of Things																		
2: Get In Touch With Trees																		
3: Peppermint Beetle																		
4: Sounds Around																		
5: Poet-Tree																		
6: Picture This!																		
7: Habitat Pen Pals																		
8: The Forest of S.T. Shrew																		
9: Planet Diversity																		
10: Charting Diversity																		
11: Can It Be Real?																		
12: Invasive Species																		
13: We All Need Trees																		
14: Renewable or Not?																		
15: A Few of My Favorite Things																		
16: Pass the Plants, Please																		
17: People of the Forest																		
18: Tale of the Sun																		
19: Viewpoints on the Line																		
20: Environmental Exchange Box																		
21: Adopt a Tree																		
22: Tress as Habitats																		
23: The Fallen Log																		
24: Nature's Recyclers																		
25: Birds and Worms																		
26: Dynamic Duos																		
27: Every Tree for Itself																		
28: Air Plants																		
29: Rain Reasons																		
30: Three Cheers for Trees																		

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	ESS1							ESS2				ESS3			ESS4			
PLT PreK-8 Activity	1	2	3	4	5	6	7	1	2	3	4	1	2	3	1	2	3	4
31: Plant a Tree																		
32: A Forest of Many Uses																		
33: Forest Consequences																		
34: Who Works In This Forest?																		
35: Loving It Too Much?																		
36: Pollution Search																		
37: Reduce, Reuse, Recycle																		
38: Every Drop Counts																		
39: Energy Sleuths																		
40: Then and Now																		
41: How Plants Grow																		
42: Sunlight and Shades of Green																		
43: Have Seeds, Will Travel																		
44: Water Wonders																		
45: Web of Life																		
46: School Yard Safari																		
47: Are Vacant Lots Vacant?																		
48: Field, Forest, and Stream																		
49: Tropical Treehouse																		
50: 400-Acre Wood																		
51: Make Your Own Paper																		
52: A Look At Aluminum																		
53: On the Move																		
54: I'd Like to Visit a Place Where...																		
55: Planning the Ideal Community																		
56: We Can Work It Out																		
57: Democracy in Action																		
58: There Ought to Be A Law																		
59: Power of Print																		
60: Publicize It!																		
61: The Closer You Look																		

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	ESS1							ESS2				ESS3			ESS4			
PLT PreK-8 Activity	1	2	3	4	5	6	7	1	2	3	4	1	2	3	1	2	3	4
62: To Be A Tree																		
63: Tree Factory																		
64: Looking at Leaves																		
65: Bursting Buds																		
66: Germinating Giants																		
67: How Big Is Your Tree																		
68: Name That Tree																		
69: Forest for the Trees																		
70: Soil Stories																		
71: Watch on Wetlands																		
72: Air We Breathe																		
73: Waste Watchers																		
74: People, Places, Things																		
75: Tipi Talk																		
76: Tree Cookies																		
77: Trees in Trouble																		
78: Signs of Fall																		
79: Tree Lifecycle																		
80: Nothing Succeeds Like Succession																		
81: Living with Fire																		
82: Resource-Go-Round																		
83: A Peek at Packaging																		
84: The Global Climate																		
85: In the Driver's Seat																		
86: Our Changing World																		
87: Earth Manners																		
88: Life on the Edge																		
89: Trees for Many Reasons																		
90: Native Ways																		
91: In the Good Old Days																		
92: A Look at Lifestyles																		

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	ESS1							ESS2				ESS3			ESS4			
PLT PreK-8 Activity	1	2	3	4	5	6	7	1	2	3	4	1	2	3	1	2	3	4
93: Paper Civilizations																		
94: By the Rivers of Babylon																		
95: Did You Notice?																		
96: Improve Your Place																		

	ESS1							ESS2				ESS3			ESS4			
PLT Energy & Society Kit Activity	1	2	3	4	5	6	7	1	2	3	4	1	2	3	1	2	3	4
1: Energy Detectives																		
2: May The Source Be With You																		
3: Energy Chains																		
4: What Powers the Move?																		
5: In the Driver's Seat																		
6: Energy Challenge Game																		

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Life Science^{*}

	LS1			LS2			LS3			LS4			LS5			
PLT (Pre K-8) Activity	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	4
1: The Shape of Things																
2: Get In Touch With Trees				✿												
3: Peppermint Beetle				✿												
4: Sounds Around	✿	✿								✿				✿		
5: Poet-Tree																
6: Picture This!		✿		✿												
7: Habitat Pen Pals	✿	✿														
8: The Forest of S.T. Shrew		✿		✿		✿										
9: Planet Diversity	✿															
10: Charting Diversity	✿	✿														
11: Can It Be Real?	✿							✿								
12: Invasive Species	✿	✿		✿			✿		✿							
13: We All Need Trees	✿												✿			
14: Renewable or Not?																
15: A Few of My Favorite Things													✿			
16: Pass the Plants, Please												✿				
17: People of the Forest							✿						✿			
18: Tale of the Sun							✿			✿			✿			
19: Viewpoints on the Line										✿						
20: Environmental Exchange Box				✿					✿							
21: Adopt a Tree						✿										
22: Tress as Habitats				✿		✿										
23: The Fallen Log	✿	✿		✿	✿	✿	✿		✿							
24: Nature's Recyclers				✿	✿	✿										
25: Birds and Worms		✿														
26: Dynamic Duos				✿		✿										
27: Every Tree for Itself		✿		✿	✿											
28: Air Plants					✿											
29: Rain Reasons				✿					✿							
30: Three Cheers for Trees																


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	LS1			LS2			LS3			LS4			LS5			
PLT (Pre K-8) Activity	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	4
31: Plant a Tree																
32: A Forest of Many Uses																
33: Forest Consequences																
34: Who Works In This Forest?																
35: Loving It Too Much?																
36: Pollution Search																
37: Reduce, Reuse, Recycle																
38: Every Drop Counts																
39: Energy Sleuths																
40: Then and Now																
41: How Plants Grow																
42: Sunlight and Shades of Green																
43: Have Seeds, Will Travel																
44: Water Wonders																
45: Web of Life																
46: School Yard Safari																
47: Are Vacant Lots Vacant?																
48: Field, Forest, and Stream																
49: Tropical Treehouse																
50: 400-Acre Wood																
51: Make Your Own Paper																
52: A Look At Aluminum																
53: On the Move																
54: I'd Like to Visit a Place Where...																
55: Planning the Ideal Community																
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	LS1			LS2			LS3			LS4			LS5			
PLT (Pre K-8) Activity	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	4
62: To Be A Tree																
63: Tree Factory																
64: Looking at Leaves																
65: Bursting Buds																
66: Germinating Giants																
67: How Big Is Your Tree																
68: Name That Tree																
69: Forest for the Trees																
70: Soil Stories																
71: Watch on Wetlands																
72: Air We Breathe																
73: Waste Watchers																
74: People, Places, Things																
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77: Trees in Trouble																
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79: Tree Lifecycle																
80: Nothing Succeeds Like Succession																
81: Living with Fire																
82: Resource-Go-Round																
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84: The Global Climate																
85: In the Driver's Seat																
86: Our Changing World																
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	LS1			LS2			LS3			LS4			LS5			
PLT (Pre K-8) Activity	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	4
93: Paper Civilizations																
94: By the Rivers of Babylon																
95: Did You Notice?																
96: Improve Your Place																

	LS1			LS2			LS3			LS4			LS5		
PLT Energy & Society Kit Activity	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1: Energy Detectives															
2: May The Source Be With You															
3: Energy Chains															
4: What Powers the Move?															
5: In the Driver's Seat															
6: Energy Challenge Game															

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Physical Science^{*}

	PS1		PS2			PS3		PS4			
PLT (Pre K-8) Activity	1	2	1	2	3	1	2	1	2	3	4
1: The Shape of Things											
2: Get In Touch With Trees											
3: Peppermint Beetle											
4: Sounds Around											
5: Poet-Tree											
6: Picture This!											
7: Habitat Pen Pals											
8: The Forest of S.T. Shrew											
9: Planet Diversity											
10: Charting Diversity											
11: Can It Be Real?											
12: Invasive Species											
13: We All Need Trees											
14: Renewable or Not?											
15: A Few of My Favorite Things											
16: Pass the Plants, Please											
17: People of the Forest											
18: Tale of the Sun											
19: Viewpoints on the Line											
20: Environmental Exchange Box											
21: Adopt a Tree											
22: Tress as Habitats											
23: The Fallen Log											
24: Nature's Recyclers											
25: Birds and Worms											
26: Dynamic Duos											
27: Every Tree for Itself											
28: Air Plants											
29: Rain Reasons											
30: Three Cheers for Trees											

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	PS1		PS2			PS3		PS4			
PLT (Pre K-8) Activity	1	2	1	2	3	1	2	1	2	3	4
31: Plant a Tree											
32: A Forest of Many Uses											
33: Forest Consequences											
34: Who Works In This Forest?											
35: Loving It Too Much?											
36: Pollution Search											
37: Reduce, Reuse, Recycle											
38: Every Drop Counts											
39: Energy Sleuths											
40: Then and Now											
41: How Plants Grow											
42: Sunlight and Shades of Green											
43: Have Seeds, Will Travel											
44: Water Wonders											
45: Web of Life											
46: School Yard Safari											
47: Are Vacant Lots Vacant?											
48: Field, Forest, and Stream											
49: Tropical Treehouse											
50: 400-Acre Wood											
51: Make Your Own Paper											
52: A Look At Aluminum											
53: On the Move											
54: I'd Like to Visit a Place Where...											
55: Planning the Ideal Community											
56: We Can Work It Out											
57: Democracy in Action											
58: There Ought to Be A Law											
59: Power of Print											
60: Publicize It!											
61: The Closer You Look											

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	PS1		PS2			PS3		PS4			
PLT (Pre K-8) Activity	1	2	1	2	3	1	2	1	2	3	4
62: To Be A Tree											
63: Tree Factory											
64: Looking at Leaves											
65: Bursting Buds											
66: Germinating Giants											
67: How Big Is Your Tree											
68: Name That Tree											
69: Forest for the Trees											
70: Soil Stories											
71: Watch on Wetlands											
72: Air We Breathe											
73: Waste Watchers											
74: People, Places, Things											
75: Tipi Talk											
76: Tree Cookies											
77: Trees in Trouble											
78: Signs of Fall											
79: Tree Lifecycle											
80: Nothing Succeeds Like Succession											
81: Living with Fire											
82: Resource-Go-Round											
83: A Peek at Packaging											
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85: In the Driver's Seat											
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87: Earth Manners											
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89: Trees for Many Reasons											
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	PS1		PS2			PS3		PS4			
PLT (Pre K-8) Activity	1	2	1	2	3	1	2	1	2	3	4
93: Paper Civilizations											
94: By the Rivers of Babylon											
95: Did You Notice?											
96: Improve Your Place											

	PS1		PS2			PS3		PS4			
PLT Energy & Society Kit Activity	1	2	1	2	3	1	2	1	2	3	4
1: Energy Detectives											
2: May The Source Be With You											
3: Energy Chains											
4: What Powers the Move?											
5: In the Driver's Seat											
6: Energy Challenge Game											

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Science Process Skills*

	SPS1					SPS2					SPS3			SPS4								
PLT (Pre K-8) Activity	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8	9
1: The Shape of Things	✿														✿							
2: Get In Touch With Trees	✿										✿				✿							
3: Peppermint Beetle	✿										✿											
4: Sounds Around	✿		✿								✿	✿	✿				✿		✿			
5: Poet-Tree	✿														✿							
6: Picture This!	✿														✿							
7: Habitat Pen Pals	✿														✿							
8: The Forest of S.T. Shrew	✿															✿						
9: Planet Diversity	✿		✿	✿	✿						✿	✿			✿							
10: Charting Diversity	✿											✿			✿							
11: Can It Be Real?	✿											✿			✿							
12: Invasive Species												✿		✿	✿							
13: We All Need Trees	✿										✿								✿			
14: Renewable or Not?												✿										
15: A Few of My Favorite Things	✿														✿	✿						
16: Pass the Plants, Please																						
17: People of the Forest											✿			✿								
18: Tale of the Sun												✿	✿									
19: Viewpoints on the Line																						
20: Environmental Exchange Box	✿										✿										✿	✿
21: Adopt a Tree	✿											✿			✿	✿				✿		
22: Tress as Habitats	✿											✿			✿							
23: The Fallen Log	✿							✿				✿										
24: Nature's Recyclers	✿		✿	✿							✿				✿		✿		✿			
25: Birds and Worms	✿			✿												✿						
26: Dynamic Duos																						
27: Every Tree for Itself																						
28: Air Plants																						
29: Rain Reasons																						
30: Three Cheers for Trees																						

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	SPS1					SPS2					SPS3			SPS4								
PLT (Pre K-8) Activity	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8	9
31: Plant a Tree																						
32: A Forest of Many Uses																						
33: Forest Consequences																						
34: Who Works In This Forest?																						
35: Loving It Too Much?																						
36: Pollution Search																						
37: Reduce, Reuse, Recycle																						
38: Every Drop Counts																						
39: Energy Sleuths																						
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	SPS1					SPS2					SPS3			SPS4								
PLT (Pre K-8) Activity	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8	9
62: To Be A Tree								✿														
63: Tree Factory								✿			✿								✿			
64: Looking at Leaves	✿																		✿			
65: Bursting Buds	✿								✿	✿										✿		
66: Germinating Giants	✿		✿							✿												
67: How Big Is Your Tree	✿		✿	✿							✿								✿			
68: Name That Tree	✿										✿								✿			
69: Forest for the Trees																			✿			
70: Soil Stories	✿		✿	✿							✿	✿										
71: Watch on Wetlands	✿		✿	✿	✿						✿	✿			✿	✿		✿	✿			✿
72: Air We Breathe	✿		✿									✿			✿			✿				
73: Waste Watchers	✿		✿	✿								✿					✿			✿		
74: People, Places, Things																						
75: Tipi Talk																✿						
76: Tree Cookies	✿																					
77: Trees in Trouble	✿		✿	✿							✿	✿							✿			
78: Signs of Fall	✿											✿										
79: Tree Lifecycle												✿			✿							
80: Nothing Succeeds Like Succession	✿								✿			✿			✿					✿		
81: Living with Fire	✿					✿						✿										
82: Resource-Go-Round	✿													✿	✿							
83: A Peek at Packaging	✿										✿	✿							✿			
84: The Global Climate	✿								✿		✿	✿		✿								
85: In the Driver's Seat			✿									✿								✿		
86: Our Changing World										✿	✿				✿	✿						
87: Earth Manners												✿			✿				✿			
88: Life on the Edge												✿		✿	✿			✿	✿			
89: Trees for Many Reasons												✿										
90: Native Ways												✿			✿							
91: In the Good Old Days						✿					✿	✿		✿	✿							
92: A Look at Lifestyles											✿	✿		✿					✿			

*A Handbook Linking Project Learning Tree's PreK-8 Activity Guide and Energy & Society Kit to
New Hampshire's Frameworks for Science Literacy (K-12)*

	SPS1					SPS2					SPS3			SPS4								
PLT (Pre K-8) Activity	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8	9
93: Paper Civilizations																						
94: By the Rivers of Babylon																						
95: Did You Notice?																						
96: Improve Your Place																						

	SPS1					SPS2					SPS3			SPS4								
PLT Energy & Society Kit Activities	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8	9
1: Energy Detectives																						
2: May The Source Be With You																						
3: Energy Chains																						
4: What Powers the Move?																						
5: In the Driver's Seat																						
6: Energy Challenge Game																						

Earth Space Science

ESS1 - The Earth and Earth materials, as we know them today, have developed over long periods of time, through constant change processes.

ESS2 - The Earth is part of a solar system, made up of distinct parts, which have temporal and spatial interrelationships.

ESS3 - The origin and evolution of galaxies and the universe demonstrate fundamental principles of physical science across vast distances and time.

ESS4 - The growth of scientific knowledge in Earth Space Science has been advanced through the development of technology and is used (alone or in combination with other sciences) to identify, understand and solve local and global issues.

Life Science

LS1 – All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species).

LS2 – Energy flows and matter recycles through an ecosystem.

LS3 – Groups of organisms show evidence of change over time (e.g. evolution, natural selection, structures, behaviors, and biochemistry).

LS4 – Humans are similar to other species in many ways, and yet are unique among Earth's life

LS5 – The growth of scientific knowledge in Life Science has been advanced through development of technology and is used (alone or in combination with other sciences) to identify, understand and solve local and global issues.

Physical Science

PS1 – All living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another (independent of size/amount of substance).

PS2 – Energy is necessary for change to occur in matter. Energy can be stored, transferred and transformed, but cannot be destroyed.

PS3 – The motion of an object is affected by force.

PS4 – The growth of scientific knowledge in Physical Science has been advanced through development of technology and is used (alone or in combination with other sciences) to identify, understand and solve local and global issues.

Science Process Skills

SPS1 – Scientific Inquiry and Critical Thinking Skills

SPS2 – Unifying Concepts of Science

SPS3 – Personal, Social, and Technological Perspectives

SPS4 – Science Skills for Information, Communication and Media Literacy

The complete text for the NH Frameworks for Science Literacy is available online at <http://www.ed.state.nh.us>.