



Topic: Outdoor Adventures

Title: Hiking Trails

Level: 1

New Hampshire Science Curriculum Framework

Grade level: K - 6

	Science																				Career Development											
	Science as Inquiry	Science, Technology, and Society					Life Science				Earth/Space Science			Physical Science								Unifying Themes and Concepts				Core Educational Learning			Individual & social learning		Career Learning	
	1a	2a	2b	2c	2d	2e	2f	3a	3b	3c	3d	4a	4b	4c	5a	5b	5c	5d	5e	5f	5g	6a	6b	6c	6d	1	2	3	4	5	6	7
Activity 1	▲																															
Activity 2	▲																															
Activity 3	▲																															
Activity 4	▲																				▲											
Activity 5	▲																				▲											
Activity 6	▲																															
Activity 7	▲																															
Activity 8	▲																															
Activity 9	▲																															
Activity 10	▲																															
Activity 11	▲																															
Activity 12	▲		▲																													
Activity 13	▲												▲																			
Activity 14	▲																															
Activity 15	▲																															

Outdoor Adventures – Hiking Trails	
Level 1 – Grade 3 - 5	
Project 2061 Benchmarks (Grade 3 - 5)	
The Nature of Science	
Activity	Scientific Inquiry
1 – 15	Scientific investigations may take many different forms, including observing what things are like or what is happening somewhere, collecting specimens for analysis, and doing experiments. Investigations can focus on physical, biological, and social questions.
	Scientific Enterprise
1 – 15	Science is an adventure that people everywhere can take part in, as they have for many centuries
1 - 15	Clear communication is an essential part of doing science. It enables scientists to inform others about their work, expose their ideas to criticism by other scientists, and stay informed about scientific discoveries around the world.
The Physical Setting	
	Energy Transformation
4, 5	Some materials conduct heat much better than others. Poor conductors can reduce heat loss.
4, 5	When warmer things are put with cooler ones, the warm ones lose heat and the cool ones gain it until they are all at the same temperature. A warmer object can warm a cooler one by contact or at a distance.

Outdoor Adventures – Hiking Trails	
Level 1 – Grades 3 - 5	
NH Science Frameworks (Grade K – 6)	
Science as Inquiry	
Activity	1a. Students will demonstrate an increasing understanding of how the scientific enterprise operates
1 – 15	Solve problems using a variety of strategies
1 – 15	Construct explanations, including the development of simple models, for observations made
1 – 15	Make hypotheses and design simple experiments to test hypotheses made
Science, Technology, and Society	
	2a. Students will demonstrate an increasing ability to use measuring instruments to gather accurate and/or precise information.
12	Use an assortment of measuring instruments, with a variety of scales, such as rulers, thermometers, graduated cylinders, balances, and timers
12	Describe and practice appropriate techniques for using simple measuring devices
12	Use technology to explore events in nature, e.g. telescopes, microscopes, computer probes
Earth and Space Science	
	4b. Students will demonstrate an increasing ability to understand that the Earth is a complex planet with five interacting systems, which consists of the solid Earth (lithosphere), air (atmosphere), water (hydrosphere), ice (cryosphere), and life (biosphere).
13	Observe, describe and record weather conditions such as clouds, temperature, air pressure, and precipitation
13	Identify events in nature that have repeating patterns or cycles, e.g. weather patterns, water cycle, rock cycle
Physical Science	
	5g. Students will demonstrate an increasing understanding that heat is the product of many natural processes.
4, 5	Explore and identify sources of heat including chemical, mechanical, and absorption of radiation
4, 5	Identify the effect of heat on common substances