



Standards
Science
Grades K-12
Mill City Museum

					Title						
					Program Name						
					Field To Table	Ethnic Cooking in MN	Kitchen Tested	The River that Powered Mpls	The River that Boosted Mpls	Round the Mills	Berry Wheat
Grade	2009 Science Standards										
	Strand	Sub-Strand	Standard	Code							
K	1. The Nature of Science and Engineering 1. The Nature of Science and Engineering	1. The Practice of Science	2. Scientific inquiry is a set of interrelated processes used to pose questions about the natural world and investigate phenomena.	0.1.1.2.1				X			
		2. The Practice of Engineering	1. Some objects occur in nature; others have been designed and processed by people.	0.1.2.1.1	X			X			X
	4. Life Science	1. Structure and Function in Living Systems	1. Living things are diverse with many different observable characteristics.	0.4.1.1.1 0.4.1.1.2 0.4.1.1.3							X
1	1. The Nature of Science and Engineering	3. Interactions Among Science, Technology Engineering, Mathematics, and Society	2. Men and women throughout the history of all cultures, including Minnesota American Indian tribes and communities, have been involved in engineering design and scientific inquiry.	1.1.3.2.1				X			
		1. Structure and Function in Living Systems	1. Living things are diverse with many different observable characteristics.	1.4.1.1.1							X
	4. Life Science 4. Life Science	3. Evolution in Living Systems	1. Plants and animals undergo a series of orderly changes during their life cycles.	1.4.3.1.1 1.4.3.1.2							X
2	1. The Nature of Science and Engineering	2. The Practice of Engineering	2. Engineering design is the process of identifying a problem and devising a product or process to solve the problem.	2.1.2.2.1 2.1.2.2.2 2.1.2.2.3				X			

	2. Physical Science	1. Matter	1. Objects can be described in terms of the materials they are made of and their physical properties.	2.2.1.1.1								X		
	4. Life Science	1. Structure and Function in Living Systems	1. Living things are diverse with many different observable characteristics.	2.4.1.1.1									X	
		3. Evolution in Living Systems	1. Plants and animals undergo a series of orderly changes during their life cycles.	2.4.3.1.1										X
3	1. The Nature of Science and Engineering	3. Interactions Among Science, Technology Engineering, Mathematics, and Society	2. Men and women throughout the history of all cultures, including Minnesota American Indian tribes and communities, have been involved in engineering design and scientific inquiry.	3.1.3.2.1 3.1.3.2.2								X		
	4. Life Science	1. Structure and Function in Living Systems	1. Living things are diverse with many different characteristics that enable them to grow, reproduce and survive.	3.4.1.1.1 3.4.1.1.2										X
4	1. The Nature of Science and Engineering	2. The Practice of Engineering	1. Engineers design, create and develop structures, processes and systems that are intended to improve society and may make humans more productive.	4.1.2.1.1								X	X	X
			2. Engineering design is the process of identifying problems, developing multiple solutions, selecting the best possible solution, and building the product.	4.1.2.2.1 4.1.2.2.2 4.1.2.2.3									X	X
	1. The Nature of Science and Engineering	3. Interactions Among Science, Technology Engineering, Mathematics, and Society	3. The needs of any society influence the technologies that are developed and how they are used.	4.1.3.3.1									X	X
	3. Earth and Space Science	2. Interdependence Within the Earth System	3. Water circulates through the Earth's crust, oceans and atmosphere in what is known as the water cycle.	4.3.2.3.1									X	

5	1. Nature of Science and Engineering	3. Interactions Among Science, Technology Engineering, Mathematics, and Society	2. Men and women throughout the history of all cultures, including Minnesota American Indian tribes and communities, have been involved in engineering design and scientific inquiry.	5.1.3.2.1						X	X	
	4. Life Science	4. Human Interactions with Living Systems	1. Humans change environments in ways that can be either beneficial or harmful to themselves and other organisms.	5.4.4.1.1						X		
6	1. The Nature of Science and Engineering	2. The Practice of Engineering	2. Engineering design is the process of devising products, processes and systems that address a need, capitalize on an opportunity, or solve a specific problem.	6.1.2.2.1						X	X	
		3. Interactions Among Science, Technology, Engineering, Mathematics and Society	1. Designed and natural systems exist in the world. These systems consist of components that act within the system and interact with other systems.	6.1.3.1.1 6.1.3.1.2						X	X	
	2. Physical Science	3. Energy	2. Energy can be transformed within a system or transferred to other systems or the environment.	6.2.3.2.1 6.2.3.2.2 6.2.3.2.3						X	X	