



Minnesota Academic Standards Science Grades 3 - 6

Science Standards				Inventions that Changed the Nation									
				IVC Class					Supplementary Materials				
				Introduction	Part One	Part Two	Part Three	Conclusion	Vocabulary	Historical Context	Historical Analysis	Reflection Time	
Grade	Strand	Sub-Strand	Standard										
3	1. The Nature of Science & Engineering	1. The Practice of Science	1. Scientists work as individuals and in groups, emphasizing evidence, open communication and skepticism.	X	X	X	X	X			X	X	X
3	1. The Nature of Science & Engineering	1. The Practice of Science	2. Scientific inquiry is a set of interrelated processes incorporating multiple approaches that are used to pose questions about the natural world and investigate phenomena	X	X	X	X				X	X	X
4	1. The Nature of Science & Engineering	2. The Practice of Engineering	2. Engineering design is the process of identifying problems, developing multiple solutions, selecting the best possible solution, and building the product.	X	X	X	X	X					
5	1. The Nature of Science & Engineering	1. The Practice of Science	1. Science is a way of knowing about the natural world, is done by individuals and groups, and is characterized by empirical criteria, logical argument and skeptical review.	X	X	X	X	X			X	X	X
5	1. The Nature of Science & Engineering	1. The Practice of Science	2. Scientific inquiry requires identification of assumptions, use of critical and logical thinking, and consideration of alternative explanations.	X	X	X	X	X			X	X	X
6	1. The Nature of Science & Engineering	2. The Practice of Engineering	1. Engineers create, develop and manufacture machines, structures, processes and systems that impact society and may make humans more productive.	X	X	X	X	X					X
6	1. The Nature of Science & 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.	X	X	X	X	X			X	X	X