

**Minnesota Academic Standards correlated to  
Reading Essentials in Science  
Perfection Learning Corporation**

4th Grade	Academic Standards	Air and Wind	Earth Movements	Soil Science	Water, Water, Everywhere	What's Up with the Weather?	Teaching Resource	The Earth	The Journey into Space	The Moon	The Solar System	The Sun	Teaching Resource	Earthquakes	Floods	Tornadoes	Hurricanes	Volcanoes	Teaching Resource
<b>History and Nature of Science</b>																			
<b>Scientific World View</b>	The student will understand how science is used to investigate interactions between people and the natural world.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>History and Nature of Science</b>																			
<b>Scientific Inquiry</b>	The student will participate in a controlled scientific investigation.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Physical Science</b>																			
<b>Structure of Matter</b>	The student will know that heating and cooling may cause changes to the properties of a substance.																		
<b>Physical Science</b>																			
<b>Energy Transformations</b>	The student will understand basic electricity and its application in everyday life.																		
<b>Physical Science</b>																			
<b>Forces of Nature</b>	The student will understand that a relationship exists between electricity and magnetism.																		
<b>Earth and Space Science</b>																			
<b>Earth Structure and Processes</b>	The student will investigate the impact humans have on the environment.			X	X	X	X								X				

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4th Grade	Academic Standards	Erosion	Forecasting	Natural Disasters	Records and Oddities	Seasons and Patterns	Teaching Resource	Amphibians and Reptiles	Birds	Fish	Insects	Mammals	Teaching Resource	At Home in the Ocean	At Home in the Tropical Rainforest	A Home by the River	A Hot Desert Home	A Mountain Home	Teaching Resource
<b>History and Nature of Science</b>																			
<b>Scientific World View</b>	The student will understand how science is used to investigate interactions between people and the natural world.		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
<b>History and Nature of Science</b>																			
<b>Scientific Inquiry</b>	The student will participate in a controlled scientific investigation.							X	X	X	X	X	X	X	X	X	X	X	X
<b>Physical Science</b>																			
<b>Structure of Matter</b>	The student will know that heating and cooling may cause changes to the properties of a substance.																		
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<b>Energy Transformations</b>	The student will understand basic electricity and its application in everyday life.																		
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<b>Earth and Space Science</b>																			
<b>Earth Structure and Processes</b>	The student will investigate the impact humans have on the environment.													X	X	X	X	X	X

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4th Grade	Academic Standards	Bones	The Brain and Nerves	The Heart	Muscles	Skin	Teaching Resource	Deserts	Mountains	Oceans	Rivers	Tropical Rain Forests	Teaching Resource	Classifying Plants and Animals	Food Chains and Webs	How Plants Grow	Life Cycles of Plants and Animals	Under a Microscope	Teaching Resource
<b>History and Nature of Science</b>																			
<b>Scientific World View</b>	The student will understand how science is used to investigate interactions between people and the natural world.	X	X	X	X	X	X							X	X	X	X	X	X
<b>History and Nature of Science</b>																			
<b>Scientific Inquiry</b>	The student will participate in a controlled scientific investigation.	X	X	X	X	X	X							X	X	X	X	X	X
<b>Physical Science</b>																			
<b>Structure of Matter</b>	The student will know that heating and cooling may cause changes to the properties of a substance.																		
<b>Physical Science</b>																			
<b>Energy Transformations</b>	The student will understand basic electricity and its application in everyday life.																		
<b>Physical Science</b>																			
<b>Forces of Nature</b>	The student will understand that a relationship exists between electricity and magnetism.																		
<b>Earth and Space Science</b>																			
<b>Earth Structure and Processes</b>	The student will investigate the impact humans have on the environment.							X	X	X	X	X	X						

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4th Grade	Academic Standards	Alcohol, Tobacco, and Drugs	Disease Prevention	Nutrition	Personal Hygiene	Physical Activity	Teaching Resource
<b>Earth and Space Science</b>							
<b>The Water Cycle, Weather and Climate</b>	The student will recognize that water on Earth cycles and exists in many forms.						
<b>Earth and Space Science</b>							
<b>The Universe</b>	The student will identify the patterns and movements of celestial objects.						
<b>Life Science</b>							
<b>Cells</b>	The student will know that all organisms are composed of cells, which are the fundamental units of life.						
<b>Life Science</b>							
<b>Diversity of Organisms</b>	The student will know that living things can be sorted into groups in many ways according to their varied characteristics, structures and behaviors.						
<b>Life Science</b>							
<b>Human Organism</b>	The student will know the structures that serve various functions in the human body, including protection from disease.		X	X			X