National Science Education Standards Chart

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STANDARDS	What is El Niño?	Thar She Blows	Clues from the Past	Weird and Wacky World- Wide Weather	Science behind the Story	Tracking El Niño	Is El Niño Coming?	Hold the Anchovies
STANDARD A – SCIENCE AS INQUIRY								
Science as Inquiry (Grades 5-8, 9-12)		\checkmark	\checkmark	\overline{V}	\checkmark	\checkmark	\checkmark	\checkmark
Use the scientific method to identify problems and								
test hypothesis to draw appropriate conclusions								
STANDARD D – EARTH SCIENCE								
Structure of the Earth System (Grades 5-8)		$\overline{\checkmark}$		\checkmark		$\overline{\mathbf{V}}$	$\overline{\mathbf{V}}$	
Global patterns of atmospheric movement								
influences local weather with oceans having a								
major effect on climate								
Energy in the Earth System (Grades 9-12)	\overline{V}	$\overline{\checkmark}$		V		V	V	
Hydrologic cycle and specific heat of water				_				
STANDARD D – LIFE SCIENCE								
		$\overline{\checkmark}$	V	$\overline{\checkmark}$		V	V	V
Populations and Ecosystems (Grades 5-8)		V	V	V		V	V	V
Biodiversity and population density depends on								
resources available and on abiotic factors								
STANDARD E – SCIENCE TECHNOLOGY								
Technological Design (Grades 5-12)				<u> </u>	<u> </u>			
<u>Understanding about science/technology</u>				\checkmark	\checkmark		\checkmark	
Identify the problem, design and evaluate								
communication tools to better solve problems								
through the use of technology								
STANDARD F – PERSONAL AND SOCIAL								
PERSPECTIVE								
Populations, resources, environment		$\overline{\checkmark}$	\checkmark				$\overline{\mathbf{A}}$	
Use of science to understand environmental quality								
(Grades 5-12)								
Risks and benefits		\checkmark	\checkmark					
Identify natural hazards								
Science/technology in society				\checkmark	\checkmark	$\overline{\mathbf{A}}$	\checkmark	\checkmark
Determine the best use of science and technology								
to address challenges								
HISTORY AND NATURE OF SCIENCE								
Science as a human endeavor (Grades 5-12)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Illustrate how data is collected and used								
Nature of science	\checkmark	\checkmark		\checkmark			\checkmark	
PHYSICAL SCIENCE								
Properties and changes in properties in		$\overline{\checkmark}$		\checkmark				
matter(Grades 5-8)				=				
Use hydrologic cycle and ocean motions to interpret								
weather patterns and upwellings								
Objects in the sky (Grades 5-12)				$\overline{\mathbf{V}}$	\overline{V}	V		
Interpret data collected through remote sensing					لن			
equipment to make predictions								
equipment to make predictions								

National Geography Education Standards Chart

The goal of the National Geography Standards is to produce a geographically informed person who sees meaning in the arrangement of things in space and applies a spatial perspective to life situations. The geographically informed person knows and understands:

STANDARDS	What is El	Thar She Blows	Clues from the Past	Weird and Wacky World- wide Weather Effects	Science behind the Story	No Fish No Dinner	Not Again	Winners and Losers
THE WORLD IN SPATIAL TERMS				_	_	_		_
Use of maps and other geographic representations, tools, and technologies to acquire, process, and report information from a spatial perspective					V		\checkmark	V
Use of mental maps to organize information about people, places, and environments in a spatial context	V	V		\checkmark	V		V	V
Analysis of the spatial organization of people, places, and environments on earth's surface	V	V	\	$\overline{\mathbf{V}}$	\		V	V
PLACES AND REGIONS								
The physical and human characteristics of places	$\overline{\mathbf{V}}$	$\overline{\mathbf{V}}$		\checkmark	\checkmark	\checkmark	\overline{V}	
Regions that people create to interpret the earth's complexity	V	V	$\overline{\mathbf{A}}$	\checkmark	V	V	V	
People's perceptions of places and region are influenced by culture and experience		V	\checkmark	\checkmark			V	V
PHYSICAL SYSTEMS								
The physical processes that shape the patterns of earth's surface	V	V	$\overline{\mathbf{A}}$		V		V	
The characteristics and spatial distribution of ecosystems		V	\checkmark	$\overline{\checkmark}$	V	V		
ENVIRONMENT AND SOCIETY								
Human actions modify the physical environment			\checkmark	\checkmark			\checkmark	
Physical systems affect human systems		$\overline{\mathbf{V}}$	\checkmark	$\overline{\checkmark}$		$\overline{\mathbf{V}}$		
The changes that occur in the meaning, use, distribution, and importance of resources		V	$\overline{\mathbf{V}}$			$\overline{\mathbf{V}}$	V	V
THE USES OF GEOGRAPHY								
The use of geography to interpret the past			V	\checkmark				V
The use of geography to interpret the present plan for the future	V	V		$\overline{\checkmark}$		V	V	V