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Grade Level: 5

Length of Unit:

Standards to be addressed:							
Standard 5-1: The student will demonstrate an understanding of scientific inquiry, including the foundations of technological design							
and the processes, skills, and mathematical thinking necessary to conduct a controlled scientific investigation.							
Indicators							
5-1.1 Identify questions suitable for generating a hypothesis.							
-1.2 Identify independent (manipulated), dependent (responding), and controlled variables in an experiment.							
1.3 Plan and conduct controlled scientific investigations, manipulating one variable at a time.							
5-1.4 Use appropriate tools and instruments (including a timing device and a 10x magnifier) safely and accurately when conducting a controlled scientific investigation.							
5-1.5 Construct a line graph from recorded data with correct placement of independent (manipulated) and dependent (responding) variables.							
5-1.6 Evaluate results of an investigation to formulate a valid conclusion based on evidence and communicate the findings of the evaluation in oral or written							
form.							
5-1.7 Use a simple technological design process to develop a solution or a product, communicating the design by using descriptions, models, and drawings.							
5-1.8 Use appropriate safety procedures when conducting investigations.							
Standard 5-3: The student will demonstrate an understanding of features, processes, and changes in Earth's land and oceans. (Earth Science)							
Indicators							
5-3.1 Explain how natural processes (including weathering, erosion, deposition, landslides, volcanic eruptions, earthquakes, and floods) affect Earth's oceans and							
land in constructive and destructive ways.							
3.2 Illustrate the geologic landforms of the ocean floor (including the continental shelf and slope, the mid-ocean ridge, rift zone, trench, and the ocean							
basin).							
5-3.3 Compare continental and oceanic landforms.							
5-3.4 Explain how waves, currents, tides, and storms affect the geologic features of the ocean shore zone (including beaches, barrier islands, estuaries, and inlets)							
5-3.5 Compare the movement of water by waves, currents and tides.							
5-3.6 Explain how human activity (including conservation efforts and pollution) has affected the land and the oceans of Earth.							
Pre-Assessment Methods to be used: (Highlight those that are appropriate)							
Readiness KWL Self-Evaluation Inventories Learning Profile							
Fist to Five MAP-math Squaring off Student interest Multiple intelligence survey							
Graphing MAP-reading Thumbs up/down Interest inventory Other:							
Pre-test SCRA Yes/No card							
Big 6 Format No							
Essential Question: How do natural processes affect landforms? How do humans affect landforms?							





Focus Questions:						
Being There Experience: Community Walk						
Responsibilities of Classroom teacher:						
Identify and teach vocabulary - erosion, deposition, weathering, etc.						
Provide hands-on activities for exploring vocabulary concepts.						
Target instruction to reach all learners						
Responsibilities of ITS:						
Create district unit test review on CPS.						
Identify and list websites and United Streaming related to landform	5.					
Earth's Land Theme Unit	United Streaming: See School shared folder on United Streaming					
Earthquake Facts	onned on eaning. See School shared folder on onited off eaning.					
Earthquakes for Kids						
Earthquakes Topic						
<u>Earthquakes</u>						
Exploratorium Faultline, Seismic Science at the Epicenter						
FEMA For Kids Disaster Connection - Kids to Kids						
Geologist						
http://www.bedfordk12tp.com-barris-earthquake.htm						
Image Gallery of Landforms						
Landforms Face of the Earth						
LANDFORMS						
Landforms11						
Observing Different Landforms						
OLogy						
<u>quakes</u>						
Rockhound Home Page						
Understanding Forthquakes Flastic Rebound Animation						
Understanding Earthquakes						
WebQuest						
Responsibilities of LMS:						
Identify and list books related to study of landforms.						
Secure NASA Scifiles Unit - "The Case of the Disappearing Dirt"						
Resource Speakers: Clemson Extension	Field Studies (in and out of school)					
NASA Video Conference on Landforms from Space Jan. 29-Feb 2	Clemson Extension Center Activities					
Literary Correlations: (See attached bibliography)						
Strategies used within the unit: (Put topics by strategies used.)						



Acceleration	Independent	Learning contracts	Multiple intelligences	Student choice	Varied materials			
Anchor activities	<mark>Jigsaw</mark>	Learning stations	Orbital studies	Taped material	<mark>Varied tasks</mark>			
Compacting	Large group	Literature circles	<mark>Small group</mark>	Tiered lesson	<mark>Visual organizers</mark>			
<mark>Webquests</mark>	Webquests Others: SmartBoard activities							
Technology Componer	its							
SmartBoard activities								
Webquests								
PowerPoint presentations								
United Streaming								
BrainPop								
Project:								
PowerPoint or SmartB	oard presentations							
Writing a letter to editor of newspaper								
Final assessments us	ed:	I	I					
<mark>Chapter tests</mark>	Exit cards	Portfolio review	Rotation	Talking topics	Wraparounds			
Conversation circles	Performance tasks	Reflection gallery	Rubrics	<mark>Unit test</mark>	Other: CPS review			
Integration into othe	r subject areas:							
ELA - Correlated stor	ies " Oceans" and "Seei	ng Earth From Space"						
Letter to editor								
Social Studies - Week	(ly Reader on natural di	sasters and space						
Math - Graphing and word problems								
Evaluation of collabo	rative efforts:							
How well were the standards met?								
What impact did information literacy have on this unit or lesson?								
How well did the library resource collection support the objectives of this unit?								
Scale: 5=Excellent 4=above average 3=average 2=below average 1=poor								
Suggestions for improvement:								
Materials or technology needed to repeat lesson:								

