Science Unit Map — Grade 3— Trimester 2

Trimester Focus:

• Earth Materials, Change, and Resources

Big Ideas:

- The Earth has natural resources that are renewable or non-renewable.
- Humans are dependent on and affect their environments in helpful and harmful ways.
- The Earth's surface changes through slow processes and fast processes.
- Earth materials have useful properties and can enhance the quality of life.

GLCEs	Vocabulary	Resources	Assessment
		(See Curriculum Calendar for Details)	P. J. A.
- Identify natural resources (metals, fuels, fresh water, soil,	boulder	Textbook: National Geographic- Earth	<u>Earth Systems</u>
and forests). (E.ES.03.41)	Earth materials	Science	<u>Formative</u> :
	rock		-Classify lists of classroom items into 2
- Classify renewable (fresh water, forests) and non-	clay	- Chapter 4 (Earth Materials)	groups: items found in nature and man-
renewable (fuels, metals) resources. (E.ES.03.42)	sand	- Chapter 5 (Natural Resources/Human	made items.
	gravel	Impact/Using Earth Materials)	
- Describe ways humans are protecting, extending and	soil	- Chapter 6 (Surface Changes)	Classify and graphically organize natural
restoring resources (recycle, reuse, reduce, renewal).	soil texture		-Classify and graphically organize natural
(E.ES.03.43)	soil color	- Chapter 7 (Surface Changes)	resources into renewable and non-renewable.
	water		
- Recognize that paper, metal, glass, and some plastics can	wind	Inquiry Book: See Inquiry Book for	<u>Summative</u> :
be recycled. (E.ES.03.44)	lie	student investigations	-In a paper grocery bag, each student
	helpful change	· ·	collects his/her individual "clean" trash for a
- Describe ways humans are dependent on the natural	changes in the	Suggested Trade Books:	specified number of days. Students examine
environment (forests, water, clean air, Earth materials) and	Earth's surface	- How the Earth Works by Michelle	the trash and divide it into categories:
constructed environments (homes, neighborhoods, shopping	harmful change	O'Brien Palmer	reduce, reuse, recycle, renew, other.
malls, factories, and industry). (E.ES.03.51)	earthquake		reduce, reuse, recycle, reliew, other.
., ,	erosion	- Planet Earth/Inside Out by Gail	
- Describe helpful or harmful effects of humans on the	landslide	Gibbons	-Design a pet house that uses all renewable
environment (garbage, habitat destruction, land management,	glacier	- 50 Simple Things Kids Can Do To Save	materials.
renewable and non-renewable resources). (E.ES.03.52)	metal	the Earth by The Earthworks Group	
, , ,	mineral	- Don't Know Much About Planet Earth	<u>Solid Earth</u>
- Recognize and describe different types of Earth materials	oil	by Kenneth Davis and Tom Bloom	Formative:
(mineral, rock, clay, boulder, gravel, sand, soil). (E.SE.03.13)		- The Three R's: Reduce, Reuse, Recycle	-Use the information students collected in
		by Nuria Roca and Rosa Curto	their Earth Materials data charts to assess
- Recognize that rocks are made up of minerals.		- Just a Dream by Chris Van Allsburg	student understanding.
(E.SE.03.14)		,	student understanding.
		- The Wartville Wizard by Don Madden	
- Identify and describe natural causes of change in the		- Where Does The Garbage Go? by Paul	<u>Summative</u> :
Earth's surface (erosion, glaciers, volcanoes, landslides, and		Showers	-Categorize pictures of slow and rapid
earthquakes). (E.SE.03.22)		- The Great Trash Bash by Loreen Leedy	changes in the Earth's surface using a T-
			chart.
- Identify Earth materials used to construct some common		Websites, Video Streaming, & Smart	
objects (for example: bricks, buildings, roads, glass). (E.SE.		Board Activities:	
03.31)		- myNGconnect.com	
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- Describe how materials taken from the Earth can be		- See grade level resource packet	
used as fuels for heating and transportation. (E.SE.03.32)		1	
(Grade Level Resource Packet	
		- See unit: Earth Materials, Change, and	
+C		Resources	*Refer to companion document for more
See inquiry and reflection GLCE's			"Evaluate Student Understanding" information.
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