Georgia on the Move: Scene 1

Scene opens on the news anchor desk of CNN.

Female News Anchor #1-Betty Bigsmiles: Reporting live from CNN in Atlanta, Georgia, I am Betty Bigsmiles. This just in: Small Earthquake Shakes the South.

A rare earthquake measuring magnitude 4.9 shook the South early this morning, Tuesday April 29, 2003, waking up people from Mississippi to North Carolina. Fortunately, the tremor failed to inflict significant damage, bleary-eyed residents and officials said. Tell us more about the dramatic incident, Sean.

Male News Anchor #2- Sean Slickhair: Thank you, Betty. I am Sean Slickhair. The epicenter of the tremor was about 37 miles southwest of Chattanooga, Tennessee, along the border of Georgia and Alabama, according to the U.S. Geological Survey web site. It struck just before 5 a.m. EDT.

Southeastern Kentucky, northeastern Mississippi and the western parts of North and South Carolina also felt the tremor, according to the National Earthquake Information Center in Golden, Colorado. Six minor aftershocks also were reported in the 2.0 to 2.5 ranges, according to the U.S. Geological Survey. For more details about the experience, lets turn to Wanda Promotion live on the scene.

Wanda Promotion: Thank you Sean. I'm here with Butch Kinemey, a spokesman for the U.S. Geological Survey (holds microphone to his face). Butch, should we be afraid that more earthquakes are on their way?

Butch: "This is not a seismically active area. It's unusual for the region to be shaken that way."

Wanda Promotion: Butch, what can you tell us about people's experiences of this earthquake?

Butch: "We've had hundreds of calls of people saying the tremors knocked pictures off walls, and a couple said their windows were cracked."

Wanda Promotion: Thanks Bruce. Betty and Sean, police in metro Atlanta said they got several calls from concerned residents. Susan Martin of the Atlanta suburb, Marietta was one of those who were shocked by the experience. Susan, tell us what the earthquake was like for you.

Susan Martin My body is shaking because it was so frightening. The shaking of my bed and the shaking of my house woke me out of a dead sleep. I felt two series of rumbles.

First I thought it was thunder. I live in a sturdy brick house, but it was shaking for 10 or 15 seconds. I was quick to get up and see if it was a tornado... I went to the window, but heard no wind and no rain. I called 911 and they asked me, 'Are you calling about the earthquake?'

Wanda Promotion: Susan was only one of many people who called 911 because of the shaking ground and resulting power outages. Back to Betty and Sean in the studio to learn more about the effects of these dramatic earthquakes!

Cooperative Group Responsibility Log

Title of Projec	et:	
Team # F	Block:	
Description of as	signment:	
Group Member	Task	Completed (yes/no)

Movers & Shakers

Construct a graphic organizer/picture that explains each type of boundary plate movement, including converging, diverging, and sliding past each other. For each type of movement, you should:

- Draw each process and label the earth's layers involved
- Explain each process
- *Describe the new land formation*
- Explain where in the world each process is happening

Graphic Organizer Grading Rubric:

Category	4 points-Excellent	3 points-Good	2 points-Fair	1 point-Poor	Total
Content -	5 structures are drawn	4 structures are drawn	4 structures are	1-2 of the assigned	
Draw the	accurately and are	accurately and are	drawn accurately	structures are drawn	
Process and	recognizable. All	recognizable. All	and are	AND/OR labeled	
Label the	assigned structures	assigned structures are	recognizable. All	accurately.	
Earth's Layers	are labeled	labeled accurately.	assigned structures	(No points if no	
	accurately.		are labeled	drawings are	
			accurately.	provided).	
Content -	Explanation of each	Explanation of each	Explanation of each	One or more topics	
Explanation of	process clearly stated	process clearly stated	process clearly	were not addressed.	
Process	with at least 3	with at least 1-2	stated with no		
	supporting details	supporting details	supporting details		
	about each.	about each.	about each.		
Content -	Accurately identified	Accurately identified	Accurately	Identification of land	
New Land	new land formations	new land formations	identified new land	formation has not	
Formation	for all 5 processes.	for 3-4 processes.	formations for 1-2	been attempted.	
			processes.		
Graphic	Graphic organizer has	Graphic organizer has	Graphic organizer or	Graphic organizer or	
Organizer	been completed and	been completed and	outline has been	outline has not been	
	shows clear, logical	shows clear, logical	started and includes	attempted.	
	relationships between	relationships between	some topics and		
	all topics and	most topics and	subtopics.		
	subtopics.	subtopics.			
Relevant	25 related and	20 related and	15 related and	15 terms are selected	
Vocabulary	significant terms are	significant terms are	significant terms are	and included in the	
	included in the	included in the	selected and	concept map	
	concept map	concept map	included in the		
			concept map		
Neatness and	Concept map is tidy,	Concept map is tidy,	Concept map is	Concept map is not	
organization	main concept is easily	main concept is	somewhat tidy,	tidy, main concept is	
	identifiable, entire	identifiable, the map	main concept is	difficult to identify,	
	map is well organized	is mostly well	included, map is	map is not organized	
	and legible	organized and legible	somewhat organized	or legible	
			and legible		
Teacher Comme	nts:				
					/24

Georgia Performance Standard(s):

SES2. Students will understand how plate tectonics create certain geologic features, materials, and hazards.

- a. Distinguish among types of plate tectonic settings produced by plates diverging, converging, and sliding past each other.
- b. Relate modern and ancient geologic features to each kind of plate tectonic setting.

Georgia on the Move: Scene 2

Continued—at the news anchor desk of CNN...

Betty Bigsmiles: This is Betty Bigsmiles...

Sean Slickhair: (he interrupts) ...and Sean Slickhair...

Betty Bigsmiles: ...at CNN studios in Atlanta, reporting on the earthquake that shook the south this morning. With us is Beverly Daniel, acting director of Cherokee County, Alabama's Emergency Management Agency. Beverly, welcome to CNN, and please tell us how Cherokee County was affected by the earthquake?

Beverly Daniels: Thanks Betty. In the aftermath of the earthquake, power outages were reported and a few trees down. It felt like an explosion, and we've got aftershocks,

Sean Slickhair: No injuries were reported, but police said there also have been power outages around Sand Rock, Alabama, and Lookout Mountain, which span Alabama, Tennessee and Georgia.

Beverly Daniels: Yes, Sean, and a few trailers shook off of their foundations... but there are no reports of major damage or injuries.

Betty Bigsmiles: Also with us is Georgia Tech professor Tim Long, who works in the school's earthquake monitoring lab. Tim, thank you for being with us today, and what can you tell us about the unusual nature of this earthquake?

Tim Long: Thank you Betty, it is a pleasure to be here. There appear to be two minor faults in northwest Georgia, the Cartersville and Rome faults; one that runs more or less along the Chattahoochee River; and two more in Central Georgia.

A small earthquake like this is not terribly unusual. The southeast Tennessee seismic zone, which actually extends from that area up toward Knoxville, is probably the second most active area in the Eastern United States.

Sean Slickhair: But isn't is odd to be having earthquakes in the south, Tim?

Tim Long: Actually, we have events like this about every 10 to 20 years. So far they have not been serious. There's potential for a larger event. In California, you get something like this once every month. In the East, it's relatively uncommon but not unheard of.

Betty Bigsmiles: Thank you both very much, Tim and Beverly, for being with us today at CNN. Next up on the morning news: Breathing Air. Is it safe for you or not? CNN reports!

Shake... Rattle... and Roll...

Each group will create an informative publication of their choosing (tri-fold brochure, debate, comic strip, flyer, newsletter, recorded Public Service Announcements with a written script ,etc...) that educates the public on the hazards associated with major seismic events. Information in the publication should relate certain geologic hazards to specific plate tectonic settings. The publication should also address what people should do if such an event happens.

Georgia on the Move Grading Rubric

CATEGORY	4 points- Excellent	3points - Good	2 points- Fair	1 point - Poor	Total Points
Content	All topics are addressed and accurate. All questions answered with at least 2 sentences about each.	99-90% of the topics are addressed and accurate. Most topics have at least 2 sentences about each.	89-80% topics are addressed, and accurate. Most topics have 1 sentence about each.	Fewer than 80% of the topics were not addressed.	
Graphics - Relevance	All graphics are related to the topic and make it easier to understand.	All graphics are related to the topic and most make it easier to understand	All graphics relate to the topic.	Graphics do not relate to the topic.	
Attractiveness	The publication is exceptionally attractive in terms of design, layout, and neatness.	The publication is attractive in terms of design, layout and neatness.	The publication is acceptably attractive though it may be a bit messy.	The publication is distractingly messy or very poorly designed. It is not attractive.	
Individual Student Notes	Notes are recorded and organized in an extremely neat and orderly fashion.	Notes are recorded legibly and are somewhat organized.	Notes are recorded.	Notes are recorded only with peer/teacher assistance and reminders.	
Sources	All sources (information and graphics) are accurately documented in the desired format.	All sources (information and graphics) are accurately documented, but a few are not in the desired format.	All sources (information and graphics) are accurately documented, but many are not in the desired format.	Some sources are not accurately documented.	
Teacher Commen	ts:				/2

Self-Evaluation Worksheet

Date:	Your Name:	Gro	Group #:		
read by your tea	Your Name:Your Name:ease circle the response with whicher and will not be shown to our ate your participation in gro	other students.		uation will only be	
5 Excellent	4 Very Good	3 Good	2 Fair	1 Poor	
How would yo	ou rate your effort in completing	g the case?			
5 Excellent	4 Very Good	3 Good	2 Fair	1 Poor	
Did <i>you</i> complete the assigned homework? If No, explain why:		Yes		No	
How well did	you work with everyone in you	r group?			
5 Excellent	4 Very Good	3 Good	2 Fair	1 Poor	
Overall, how v	would you rate your performand	ce in this case?			
5 Excellent	4 Very Good	3 Good	2 Fair	1 Poor	
What praise or case?	eriticism do you have for other	group members?	What are your th	oughts about the	
participa have 25 j be share Studen Studen Studen Studen	as 5 points per person to distrated in and contributed to the points, a group with 4 student d within the group. t name: t name: t name: t name:	ir group (for ex ts will have 20 p Their points: Their points: Their points:	ample, a group vooints). Decide he	with 5 students will	