## The Layers of the Earth Curriculum-Based Readers Theatre Script

Developed by Dr. Rosalind M. Flynn with Teachers at the 2008 Alabama Institute for Arts in Education

1	Turn off your video games!	All	The crust can be only three miles
2	Grab your popcorn!		wide under the ocean
3	And settle down in front of your	20	Ohhhh.
	TV to watch	All	and 25 miles wide under the
All	"Science in Action!" [gesture]		mountains!
	[sound effect]	20	Ahhhh.
4	Tonight's program takes you on	14	So it is like a pizza crust—you
	an incredible journey into		can have it thick or thin!
All	The Center of the Earth! [gesture]	All	Rock on! [gesture]
5	We'll travel through the Earth's	1	Yes, it's thin.
All	Four different layers! [gesture]	2	It's rocky.
6	What are the four layers?	3	It's the Earth's skin!
7	Like an everlasting gobstopper,	4	You mean the Crust really covers
	the Earth's top layer is		all of the Earth?
All	The Crust! [gesture]	All	All of it! [gesture]
8	What layer is under the crust?	5	From the top of the mountains
All	The Mantle! [gesture]	6	through the desert sands
9	And below that—the third layer is	7	to the bottom of the oceans
All	The Outer Core! [gesture]	All	where the crust is the thinnest
10	And last, but not least	8	and the rock is
11	We'll arrive at the inner-most	All	Dense! [gesture][sound effect]
	layer—	9	And the floor is
All	The Inner Core! [gesture]	All	Heavy! [gesture] [sound effect]
12	Let's start back at the top.	10	But the land is
13	What was the top layer?	All	Lighter! [gesture][sound effect]
All	The Crust! [gesture]	11	Wow, that's cool!
14	I love a light flakey crust!	12	But here's something that's not:
15	The crust is the layer of the Earth	All	The Mantle—the second layer—is
	we live on.		steaming hot! [gesture][sound
16	And it's not flakey—it's made of		effect]
	rock.	13	You wouldn't want to get trapped
17	Rock? I love rock! Rock on dude!		in there!
All	Not that kind of rock! [gesture]	11	Why not?
18	The two main types of rock are	All	Because the Mantle is 1800 miles
All	Basalts and Granite! [gesture]		of hot flowing asphalt!
19	But the crust is not the Earth's		[gesture][sound effect]
	thickest layer.	14	Isn't asphalt what's on the road?
20	How thick is it?	15	I have trouble walking barefoot
			across a road in the summer.

16	Just think about how long a walk	All	That's about 400 laps around
	through the Mantle would take!		Talladega Super Speedway!
17	Why?		[gesture][sound effect]
All	Because the Mantle is the largest	13	That's all very interesting, but
	layer of the Earth! [gesture]		what do we call the science and
18	How hot is the Mantle?		study or Earth's solid matter?
19	The upper part is cooler than the	All	Hmmm, Geology!
	deep Mantle.	14	Who studies the physical structure
All	The deep Mantle sits on top of the		and processes of the Earth?
	Outer Core! [gesture]	All	Duh! Geologists! [sound
20	This makes the Mantle and Crust		effect][gesture]
	move slowly.	15	I was told that geologists believe
1	What is the Mantle made of?		that as the Earth cooled
All	Many different rocky materials!	16	Heavier and denser metals sank to
	[gesture] [sound effect]		the center of the Earth
2	Did someone say Outer Core?	All	Sank! [gesture]
	What state is that in?	17	And the lighter materials rose to
3	Alabama!		the top.
All	[gesture][sound effect] Not! The	All	Rose! [gesture]
	Outer Core is iron and nickel in	18	What is hot, hot, hotter than the
	the liquid state. [gesture]		Mantle?
4	The Earth's Outer Core is	All	The Outer and Inner Cores!
	extremely hot.	19	Would you like to visit the Outer
All	Hot! [gesture] [sound effect]		and Inner Cores?
5	And fluid!	All	No way! [gesture]
All	Fluid! [gesture][sound effect]	20	The pressures are so great there
6	How thick is it?	1	that you would be squeezed into a
All	The Outer Core is 1400 miles		ball
	thick! [gesture]	All	smaller than a marble! [gesture]
7	And what about the Inner Core?	2	So everyone, what are the four
8	The Inner Core is made of		layers of the Earth?
All	Nickel and iron. [gesture]	All	Crust, Mantle, Outer Core, Inner
9	And…like AC/DC,		Core!
10	Nickel and iron are both	3	What an amazing journey we have
All	Heavy Metals! [gesture][sound		had
	effect]	4	traveling through the four layers
11	In the Inner Core, nickel and iron		of the Earth!
	are in their	5	See you next time on
All	solid states! [gesture][sound	All	"Science in Action!"
	CC 43		

effect]

The Inner Core is 800 miles thick.

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