Earth Science Unit, Dynamic Earth Portion

**Textbook Lead-in Activity – Teacher Notes**

Take students on a series of pages in the book that will help to introduce the book and topics to them.

Follow this basic script:

In the next few weeks, we will be using our textbook and many activities to learn about some of the ways the earth is a dynamic planet.

By the word dynamic, we mean always active and having something going on inside the interior as well as on the exterior surface of the earth.

The pages we are going to briefly look at will serve as an introduction to what we will be studying in the next few weeks.

Have this list on the board so they can transition to the pages as you talk about each:

Page xvii, first and third pictures

Page 5, first picture

Page 9, picture

Page 26, career focus, paragraphs 2&3

Page 70, picture

Page 98, picture

Page 107, picture

Pages 108-109, career focus

Talk about/ask students about the information on these pages.

1. page xvii, first and third pictures

Note some of the terms that are seen: Earth scientists & earthquakes.

Maybe call on someone to state what we call an earth scientist that studies volcanoes (volcanologist)

2. page 5, first picture

What do you see going on in the background where this volcanologist is working? What type of gear does she have to do her job? If you were there how do you think you would feel? (hot?)

3. page 9 picture

What are they doing here? What happened here to create the landform you see? Do you think it is dangerous to be there?

4. page 26, career focus, pars. 2&3

Do you think you would like a job like Ken Pierce? What is the name of his job? What are some of the things he learns about?

5. page 70 picture

Can you tell what is affecting this house? Tell me about it…… (black ash from a volcanic eruption has fallen on and around the house)

6. page 98 picture

I guess they won’t be using their driveway anymore…what happened here? How strong do you think this earthquake was in order to damage a street like that?

7. page 107 picture

What type of building was this & how do you know? Do you think this city improved their building codes after this earthquake? (the paper on the sidewalk indicates it was an office building)

8. pages 108-109

Skim the Career Focus section. What three earth science specialists are featured in this reading selection? (Tectonophysicist, Volcanologist, Exploration Geophysicist)

Do you think any of these are office jobs where you answer the phone all day? No? What do you think they do all day?

End discussion and direct students to open to page 67, where they will prepare to read out loud about the story of continental drift hypothesis.