

Item: \_\_\_\_\_

ECE 2.4 Reading Guide/Web

Name: \_\_\_\_\_

Read pages 71-73 as a group and answer questions #1-9.

1) It is difficult for scientists to observe the Earth's interior by digging through the Earth's crust. How else to scientists study the interior of the Earth?

2) List the three main layers of the Earth and give ONE word description for each.

3) Define composition (in your own words).

4) How do scientists study the layers of the Earth? Explain.

5) Define seismology.

6) Why can scientists infer that the outermost part of the Earth's core is a liquid?

7) A. How can scientists use volcanic rock to study the earth's compositions? B. Is studying this reliable?

8) What is another way scientists can make inferences about the composition of Earth's interior?

9) What is the difference between a meteor and a meteorite?

Go to google classroom and click on the first hyperlink and answer the following questions:

Earth's Crust

*(with table partner)*

Scroll over the word crust and read about it! (You may use or mute the audio)

10) Describe the crust.

11) Is Earth's crust all the same thickness?

12) a. When we say the "oceanic crust" what do you think it means? b. How thick is the oceanic crust?

13) a. When we say "continental crust" what do you think it means? b. How thick is the continental crust? c. Where would you think the crust be the thickest?

14) Is continental crust more or less dense than oceanic? Why? (will also need to refer to your book: the last paragraph on pg 76)

15) Describe the lithosphere (include where it is located in Earth, what layers of the Earth it includes, and composition):

16) Describe the asthenosphere (include where it is located in Earth and describe its texture):

Earth's Mantle

17) What is mantle made of?

18) How does heat and pressure impact the mantle?:

19) How thick is the mantle?

Earth's Core (Outer and Inner Core)

20) Describe the outer core (include why it is "special", what it is made of, and temperature):

21) Describe the inner core (be sure to also include its temperature):

22) What makes the inner core so fascinating? ("hint 3<sup>rd</sup>" and 4<sup>th</sup> paragraph or read last 5 sentences on pg 78)

