Tellus Trip (Makeup Assignment) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Use your Holt Science Textbook (mostly chapters 3-4) to answer the following questions.

If a website is given, you can use the Internet (only for the website given).

1. What are the 3 types (classes) of **meteorites? (textbook page 671)**

1. What is the thickness (radius) of the Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km **(textbook page 193)**
2. Which of the following are examples of **rocks** (not minerals)? Circle the rocks below:

Obsidian, pyrite, quartz, granite **(see chapters 3-4)**

1. Name the 3 rock families, **and** briefly describe how each forms (origin): **(see textbook, chapter 4)**

a.

b.

c.

1. Unlike most volcanoes, Hawaii does not occur at a plate boundary. Instead, the islands of Hawaii formed over a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ **(textbook page 264)**
2. Checkout the USGS Earthquake display: <http://ds.iris.edu/seismon/>

What is the location of the **largest earthquake** today?

How many earthquakes have occurred in the United States in the past 2 weeks?

1. What mineral is used to make glass and computer chips **(textbook page 78)?**
2. Which element of the periodic table is used for salts, nerves, nutrient in fruits (like bananas) and vegetables, soap, and fertilizer? <http://elements.wlonk.com/ElementUses.htm>
3. Does halite break with cleavage or fracture? **(textbook page 71)**
4. Which mineral is **number 7** on Moh’s scale of hardness? **(textbook pages 72)**

1. Galena is an example of a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(textbook page 69)**
   1. Carbonates b. Silicates c. Oxides d. Sulfides
2. Which is the most abundant class (family) of minerals? **(textbook pages 68-69)**
   1. Carbonates b. Silicates c. Oxides d. Sulfides

What **2 elements** do all of these minerals contain? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

1. <http://www.statesymbolsusa.org/states/united-states/georgia>

What is Georgia’s official **state mineral (not gem)**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is Georgia’s official state **fossil**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In which month were you born? \_\_\_\_\_\_\_\_\_\_\_\_

<http://www.americangemsociety.org/birthstones>

What is your birthstone?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a mineral that is rare, durable, natural, and has great beauty. **(textbook, pages 78-79)**
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the study of past life. (**textbook page 154-155**)
3. You’ll find most fossils in ­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rock. (**textbook, pages166-167**)
4. Other than in rocks, where else can fossils be preserved? (**textbook, pages 166-167**)

1. If you find a trilobite in rock, you will know that the rock is about 400 ­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years old. (**textbook pages 170-171**)
2. What **era** are we currently in? (**textbook pages 172-177**)
   1. Mesozoic b. Cenozoic c. Paleozoic d. Precambrian
3. Name the 3 periods that make up the **Mesozoic Era**: (**textbook pages 174-176**)

1. What creature will most likely **end** the Cenozoic Era? Explain. (do not use the textbook or Internet)

Tellus Trip (Makeup Assignment) Key N,D,P

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1. What are the 3 types (classes) of **meteorites? (textbook page 671)**

Stony, metallic, stony-iron

1. What is the thickness (radius) of the Earth? about 6000 km **(textbook page 193)**
2. Which of the following are examples of **rocks** (not minerals)? Circle the rocks below:

Obsidian, pyrite, quartz, granite **(see chapters 3-4)**

1. Name the 3 rock families, **and** briefly describe how each forms (origin): **(see textbook, chapter 4)**
   1. Igneous lava/magma
   2. Sedimentary layers (usually underwater)
   3. Metamorphic change from heat/pressure
2. Unlike most volcanoes, Hawaii does not occur at a plate boundary. Instead, the islands of Hawaii formed over a hot spot. **(textbook page 264)**
3. Checkout the USGS Earthquake display: <http://ds.iris.edu/seismon/>

What is the location of the **largest earthquake** today?

How many earthquakes have occurred in the United States in the past 2 weeks?

1. What mineral is used to make glass and computer chips **(textbook page 78)?** Quartz
2. Which element of the periodic table is used for salts, nerves, nutrient in fruits (like bananas) and vegetables, soap, and fertilizer? <http://elements.wlonk.com/ElementUses.htm> Potassium (K)
3. Does halite break with cleavage or fracture? **(textbook page 71)**
4. Which mineral is **number 7** on Moh’s scale of hardness? **(textbook pages 72)**

**quartz**

1. Galena is an example of a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(textbook page 69)**
   1. Carbonates b. Silicates c. Oxides d. Sulfides
2. Which is the most abundant class (family) of minerals? **(textbook pages 68-69)**
   1. Carbonates b. Silicates c. Oxides d. Sulfides

What **2 elements** do all of these minerals contain? silicone and oxygen

1. <http://www.statesymbolsusa.org/states/united-states/georgia>

What is Georgia’s official **state mineral (not gem)**? Staurolite

What is Georgia’s official state **fossil**? Shark tooth

1. In which month were you born? \_\_\_\_\_\_\_\_\_\_\_\_

<http://www.americangemsociety.org/birthstones>

What is your birthstone?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A gemstone (or gem) is a mineral that is rare, durable, natural, and has great beauty. **(textbook, pages 78-79)**
2. Paleontology is the study of past life. (**textbook page 154-155**)
3. You’ll find most fossils in sedimentary rock. (**textbook, pages166-167**)
4. Other than in rocks, where else can fossils be preserved? (**textbook, pages 166-167**)

amber, petrification, asphalt, frozen/ice

1. If you find a trilobite in rock, you will know that the rock is about 400 million years old. (**textbook pages 170-171**)
2. What **era** are we currently in? (**textbook pages 172-177**)
   1. Mesozoic b. Cenozoic c. Paleozoic d. Precambrian
3. Name the 3 periods that make up the **Mesozoic Era**: (**textbook pages 174-176**)

Cretaceous, Jurassic, Triassic

1. What creature will most likely **end** the Cenozoic Era? Explain. (do not use the textbook or Internet)

humans