**Types of Soil**

**\*\*\*Read in the Textbook Eureka pages 307-310 and then answer the following questions and fill in the blanks to complete your notes on Types of Soil\*\*\***

Land and Soil are two different things.....

Soil is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

and is created from the mixture of components of the \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_, and

\_\_\_\_\_\_\_\_\_\_\_\_\_. Soil is a vital element because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**What would happen without soil in our Earth?**

**Explain the two formation processes of soil** (**1.** **The alteration of the bedrock** and **2.** **The influx of organic material from living things**) while defining **bedrock**, **acid**, and **humus**.

1. The Alternation of the bedrock -

2. The influx of Organic Material from Living Things -

**Soil Profile**

The deeper you dig in the soil, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are different layers of composition and structure called the soil’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The soil profile is generally formed from three horizons A, B, and C. Using your textbook and the diagram below **explain the main points of each horizon below**:

**What is leaching?**

**Soil Texture and Structure**

The texture of soil depends on the size of particles composing it and these sizes vary from gravel to microscopic bits of clay. Soil is usually a mix of 3 particle types: \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, & \_\_\_\_\_\_\_\_\_.

What are the most fertile soils and what are they made up of? Why are they the most fertile?

**Label the following from smallest to biggest particles and include the size of the particles.**

Silt

Clay

Sand

**Explain the following sentence** using the term **soil porosity**: The structure of the soil is an indication of how the elements are arranged.

Soil Inhabitants

The soil houses an unbelievable quantity and variety of living organisms. **Use Figure 22 to explain how these organisms can determine the properties of the soil where they are found.** (hint: use drawings and words to explain this concept)