

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

List the 4 components that make up soil (4.1.1):

- a. clay
- b. sand
- c. silt
- d. clay

2. Define each of the following, and how they relate to soil formation (4.1 How

Soils Are Formed Notes):

- a. Topography: the arrangement of the top soil
- b. Climate: weather conditions
- c. Time: how to tell the what the hour and minutes are
- d. Organisms: living objects
- e. Parent material: soil underneath the topsoil

3. List all the potential problems that erosion could cause (4.1 How Soils are

Formed Notes and 4.1.3): compaction, low organic matter, no structure

4. List the three main particle sizes in mineral soil (4.2.1): sand silt and clay

**5. *Be familiar with the soil texture flow chart. (4.2.1)***

6. Define the following terms (4.2.1 and 4.2.2):

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

**a.** Permeability: state of material that allows liquids to pass through

**b.** Pores: small opening in surface

**c.** Loam: fertile mix of clay and sand

**d.** Clay: stiff sticky fine grained earth

**e.** Organic Matter: decaying plants and animals

**7.** Explain the permeability of the following soil particles (1 = fastest/highest

permeability 5 = slowest/lowest permeability) (4.2.2):

**a.** Loam:4

**b.** Clay:5

**c.** Gravel:1

**d.** Sand:2

**e.** Silt:3

**8.** List the 5 locations of water in the water cycle (4.3 The Water Cycle Notes).

condensation, precipitation, infiltration, runoff, evaporation

**9.** Define the following (4.3 The Water Cycle Notes).

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

- a.** Melting – from solid to liquid
- b.** Freezing – liquid to solid
- c.** Evaporation – liquid to vapor
- d.** Condensation – water vapor that becomes liquid when on a cold surface that comes in contact with warm air
- e.** Evapotranspiration – when water is evaporated to the atmosphere
- f.** Percolation/Infiltration – when water absorbs into something.