Section 1 Weathering

A. Effects of weathering—surface processes break down rock into small particles called 1. Plant _____ and burrowing ____ cause mechanical weathering.
2. ____ water enters cracks and freezes and expands, breaking rocks apart. 3. Small pieces of rock have more ______ area than larger pieces of rock and weather faster. C. them into different minerals. 1. Carbonic ______, formed from carbon dioxide gas and water, and plant acids can react with minerals to weather rock. 2. ______chemical process that occurs when iron is exposed to oxygen in the air

D. Effects of ______pattern of weather that occurs over time.

1. Mechanical weathering is more rapid than chemical weathering in _____ climates. 2. Chemical weathering is more rapid than mechanical weathering in climates. 3. Rock type can affect of weathering. Section 2 The Nature of Soil A. Formation of soil—can take _____ of years

1. _____ is a mixture of weathered rock, decayed organic matter, mineral fragments, water, and air. 2. Formation is influenced by _______, ______, types of ________, types of ________, and length of _______ that rock has been weathering.

B. _______ of soil—the ingredients that make up soil

1. Clay, silt, and sand are small particles of ______. 2. Decaying, dark-colored plant and animal material is called ____
3. Small spaces between soil particles may be filled with _____ C. Soil Profile—made up of different ___ 1. Horizon A—___ soil layer
a. May be covered with organic ____ that may turn into humus
b. Fertile layer with more ____ and less ____ and mineral particles than other soil horizons c. Soil color can affect soil ____ d. Soil _____ and ____ are important in determining seed germination.

2. Horizon B—_____ soil layer

a. Contains less _____ and is lighter in color than A horizon b. Minerals travel from A horizon to B horizon in a process called _ 3. Horizon C—______ soil layer
a. Has very little ______ matter and is not strongly affected by leaching

b. Contains rock—the _____ material of the soil

4. Soil structure can be _____