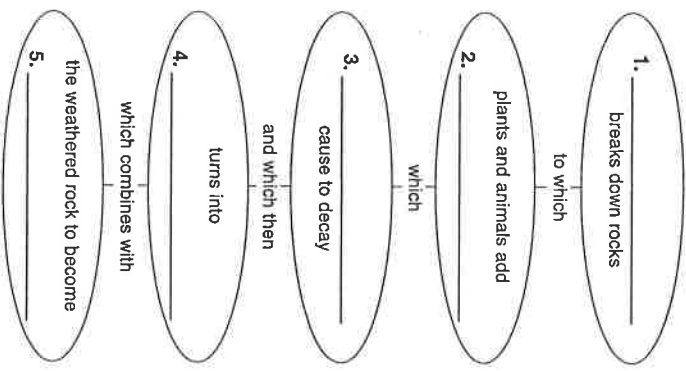


Directions: Complete the concept map using the terms listed below.

- weathering humus soil
 organic matter fungi and bacteria



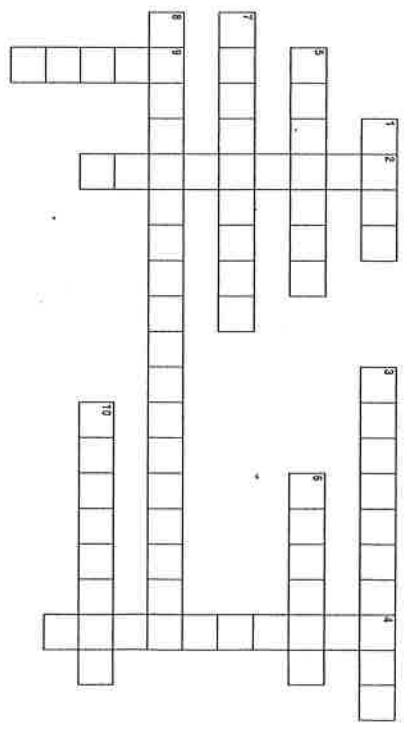
Directions: Write T if the statement is true; write F if the statement is false.

6. Soil is eroded when it is moved from the place where it formed.
7. Erosion is much more common in areas with lots of vegetation.
8. Increased use of farmland has led to more rapid soil erosion.
9. Terracing is one recent method of stopping erosion.
10. No-till farming helps reduce soil erosion.

Directions: Use the clues below to complete the crossword puzzle.

Meeting Individual Needs

Meeting Individual Needs



Across

1. Mixture of weathered rock, decayed organic matter, mineral fragments, water, and air
 3. Surface processes that break down rock
 5. A layer in the soil profile
 6. Organic material such as leaves and twigs that may be changed to humus by decomposing organisms
 7. Method of building level-topped areas onto the sides of steep hills or mountains so that crops can be grown
 8. When chemical reactions dissolve the minerals in rocks or change them into different minerals
 10. Removal of minerals that have been dissolved in water
- Down
2. Occurs when materials containing iron are exposed to oxygen and water
 4. When water breaks rocks apart by entering cracks and freezing, then thawing
 9. Decayed organic matter that turns into a dark-colored material

SECTION 2
Reinforcement

The Nature of Soil

Directions: Answer the following questions on the lines provided. Study the diagram of a soil profile to answer questions 1–5.



1. Which soil layer contains the most humus?

2. How far into the soil do plant roots grow?

3. Where in this soil profile is organic matter broken down?

4. Where in this soil profile is solid rock being weathered into soil?

5. What is the name of the process by which water carries dissolved minerals from the upper horizons down to the lower levels? _____

Directions: Use the following terms to fill in the blanks below.

soil humus water horizons below
topsoil bottom top soil profile leaching

1. _____ is a mixture of weathered rock, decayed organic matter, mineral fragments, water, and air.
2. Decaying organic matter is called _____.
3. Due to weathering, different layers, or _____ of soil form.
4. The different layers of soil make up a _____.
5. The A horizon is the _____ layer of soil and is also known as _____.
6. The B horizon is the layer _____ the A horizon.
7. The C horizon is the _____ layer in a soil profile; it consists of partly weathered rock.
8. _____ seeping downward through the horizons dissolves and carries minerals into lower horizons by the process of _____.

Meeting Individual Needs