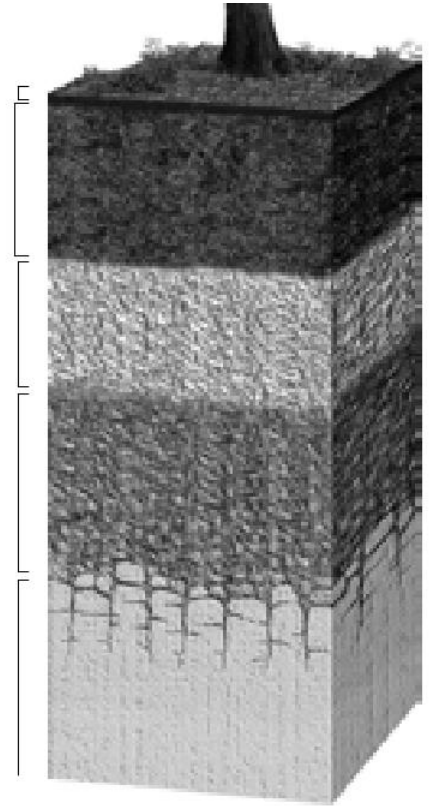


# CH 5.2B SOIL & 5.3 MASS MOVEMENTS NOTES

**Soil Profile**

**Soil Profile (vertical)**



**Soil Erosion**

**Controlling erosion**

**Triggers of Mass Movements**

**Types of Mass Movements**

1)	
2)	
3)	
4)	
5)	

## Soil Erosion

11. ☞ Is the following sentence true or false? Human activities, such as farming, logging, and construction, have slowed down the amount of erosion that occurs today. \_\_\_\_\_
12. Is the following sentence true or false? In many regions of the world, soil is eroding faster than it is being formed.  
\_\_\_\_\_

1. ☞ The transfer of rock and soil downslope due to \_\_\_\_\_ is called mass movement.

## Triggers of Mass Movements

2. ☞ What are the factors that commonly trigger mass movements?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

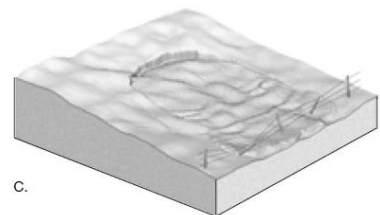
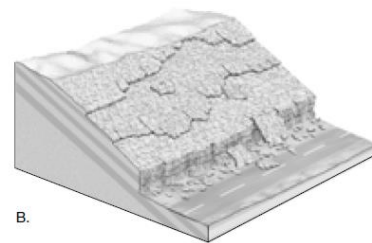
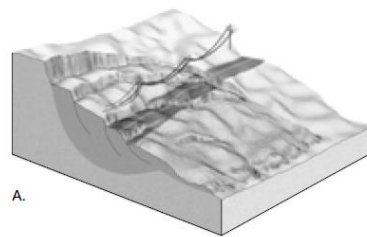
3. Circle the letter of each sentence that is true about water triggering mass movements.
  - a. Heavy rains and rapid melting of snow can trigger mass movements by saturating surface materials with water.
  - b. When the pores in sediment become filled with water, the particles slide past one another more easily.
  - c. If there is sufficient water, sand grains will ooze downhill.
  - d. Saturation of the ground with water makes slopes more susceptible to the force of gravity.
4. Is the following sentence true or false? If the steepness of a slope exceeds the stable angle, mass movements become more likely.  
\_\_\_\_\_

## Types of Mass Movements

Match each description with its term.

- | Description  | Term         |
|--|--------------|
| _____ 6. a flow that moves relatively slowly—from about a millimeter per day to several meters per day | a. rockfall  |
| _____ 7. the downward movement of a block of material along a curved surface                           | b. rockslide |
| _____ 8. a quickly moving mass of material that contains large amounts of water                        | c. slump     |
| _____ 9. when rock or rock fragments fall freely through the air                                       | d. mudflow   |
| _____ 10. slides that include bedrock that move suddenly along a flat, inclined surface                | e. earthflow |

11. Identify each of the forms of mass wasting illustrated in the figures below by writing the name of the process on the lines provided. Choose *earthflow*, *slump*, or *rockslide*.



- A. \_\_\_\_\_  
B. \_\_\_\_\_  
C. \_\_\_\_\_