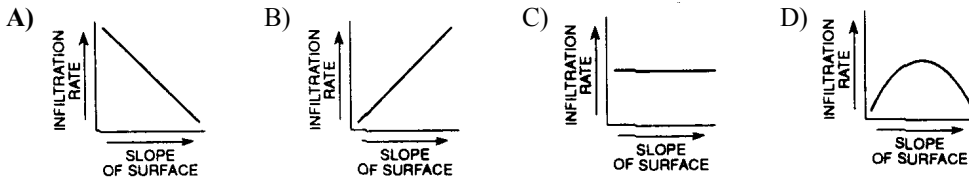


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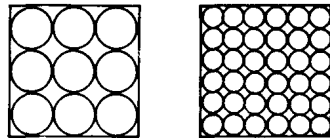
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## Water Cycle quick quiz

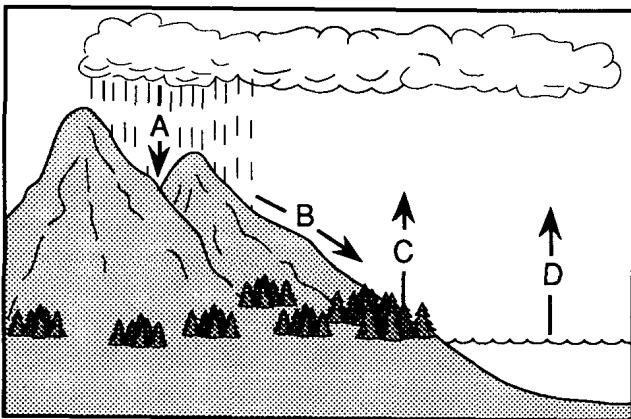
- Which property of loose earth materials most likely increases as particle size decreases?  
A) **capillarity**      B) infiltration      C) permeability      D) porosity
- Runoff is usually greater than infiltration when the  
A) soil is porous      B) **slope is steep**  
C) rainfall is low      D) temperature is high
- Compared to an area of Earth's surface with gentle slopes, an area with steeper slopes most likely has  
A) **less infiltration and more runoff**      B) less infiltration and less runoff  
C) more infiltration and more runoff      D) more infiltration and less runoff
- The water table usually rises when there is  
A) a decrease in the amount of infiltration  
B) a decrease in the amount of surface area covered by vegetation  
C) **an increase in the amount of precipitation**  
D) an increase in the slope of the land
- Which graph best represents the relationship between the surface slope of a dry, sandy soil and the infiltration rate of rain?



- Base your answer to the following question on The diagram below represents two identical containers filled with samples of loosely packed sediments. The sediments are composed of the same material, but differ in particle size. Which property is most nearly the same for the two samples?



- A) infiltration rate      B) **porosity**      C) capillarity      D) water retention
- A diagram of the water cycle is shown below. Letters *A* through *D* represent the processes taking place.



Which arrow represents the process of transpiration?

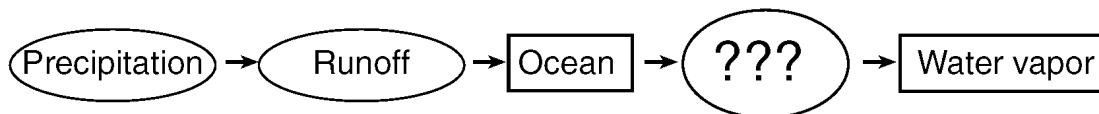
- A) *A*      B) *B*      C) *C*      D) *D*

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

Class: \_\_\_\_\_

## Water Cycle quick quiz

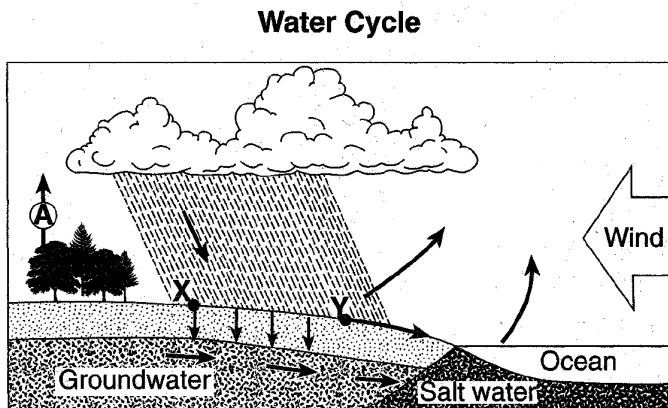
8. The flowchart below shows part of Earth's water cycle. The question marks indicate a part of the flowchart that has been deliberately left blank.



Which process should be shown in place of the question marks to best complete the flowchart?

- A) condensation      B) deposition      C) **evaporation**      D) infiltration

Base your answers to questions 9 and 10 on the diagram of the water cycle below. Letter *A* represents a process in the water cycle. Points *X* and *Y* represent locations on Earth's surface.



9. The amount of runoff at *Y* will increase as the

- A) slope of the land decreases      B) porosity of the soil increases  
C) evaporation rate exceeds the infiltration rate      D) **precipitation rate exceeds the infiltration rate**

10. Rainwater will enter the ground at *X* if the ground is

- A) saturated and permeable      B) saturated and impermeable  
C) **unsaturated and permeable**      D) unsaturated and impermeable

11. As the temperature of the soil decreases from 10°C to -5°C, the infiltration rate of ground water through this soil will most likely

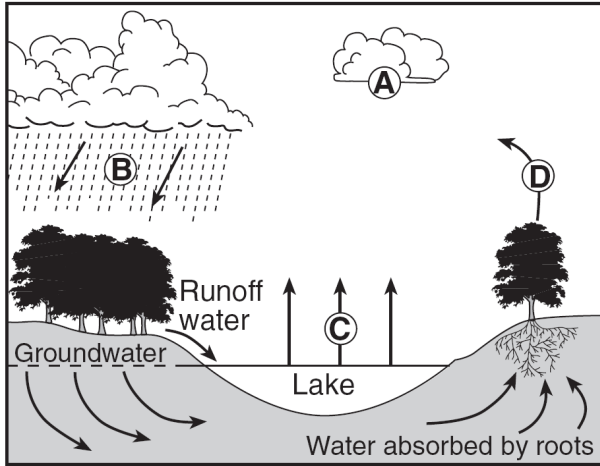
- A) **decrease**      B) increase      C) remain the same

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

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## Water Cycle quick quiz

12. The letters *A* through *D* in the cross section below represent four of the processes that are part of the water cycle.



Which table correctly matches each letter with the process that it represents

A)

Letter	Process
A	condensation
B	precipitation
C	transpiration
D	evaporation

B)

Letter	Process
A	evaporation
B	condensation
C	precipitation
D	transpiration

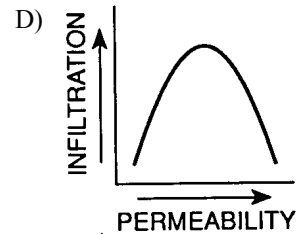
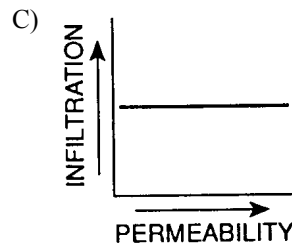
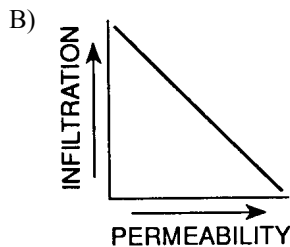
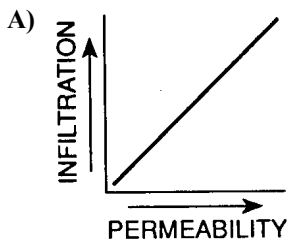
C)

Letter	Process
A	transpiration
B	precipitation
C	evaporation
D	condensation

D)

Letter	Process
A	condensation
B	precipitation
C	evaporation
D	transpiration

13. Which graph best represents the relationship between soil permeability rate and infiltration when all other conditions are the same?

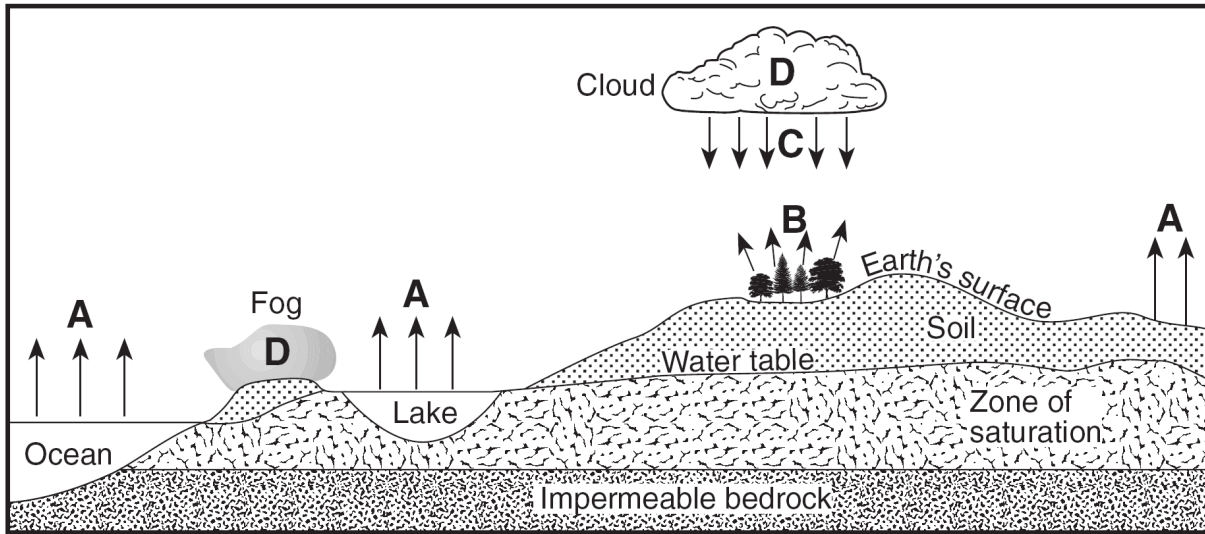


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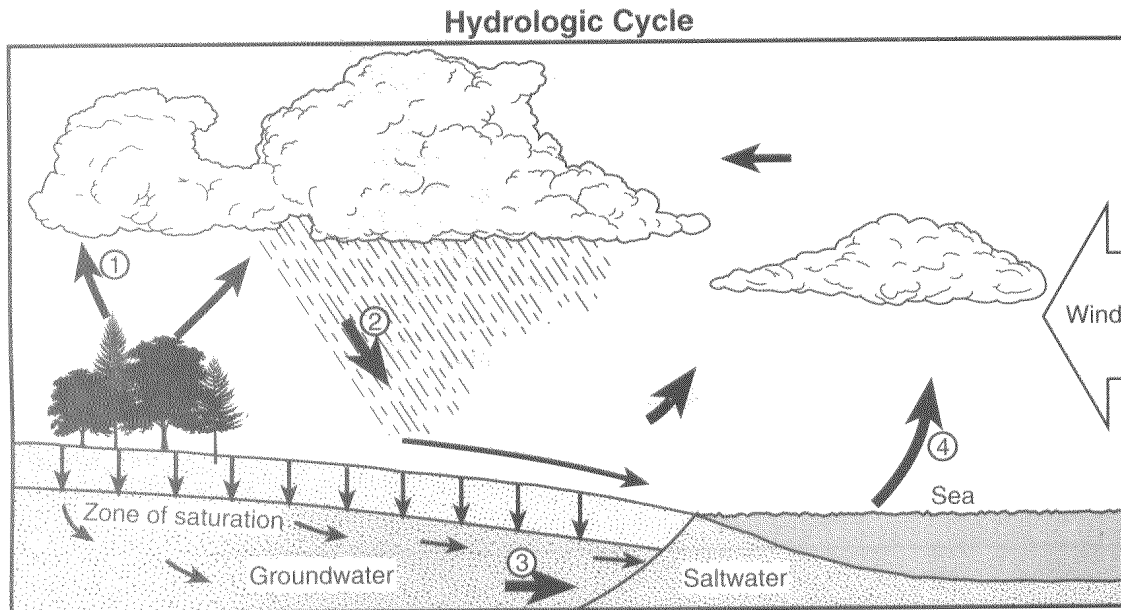
## Water Cycle quick quiz

14. Base your answer to the following question on the cross section below, which represents part of Earth's water cycle. Letters *A*, *B*, *C*, and *D* represent processes that occur during the cycle. The level of the water table and the extent of the zone of saturation are shown.



What are two water cycle processes *not* represented by arrows in this cross section?

- A) transpiration and condensation  
B) evaporation and melting  
C) precipitation and freezing  
D) runoff and infiltration
15. Base your answer to the following question on the water cycle diagram shown below. Some arrows are numbered 1 through 4 and represent various processes.



For infiltration to occur, the ground must be

- A) permeable and saturated  
B) permeable and not saturated  
C) impermeable and saturated  
D) impermeable and not saturated
16. Assuming a constant land slope, the greatest infiltration of water into the Earth will occur when the surface is
- A) permeable and saturated  
B) permeable and unsaturated  
C) impermeable and saturated  
D) impermeable and unsaturated

**6.GROUND WATER (10)**

**6.A.Earth's Water (9)**

**6.A.i.Ground Water (6)**

**6.A.i.d.Capillary (1)**

**6.A.i.a.Infiltration (4)**

**6.A.i.b.Permeability (1)**

**6.A.ii.Surface Water Runoff (3)**

**6.B.The Local Water Budget (1)**

**6.B.ii.Climate and Local Water Budget (1)**

**5.WEATHER AND THE ATMOSPHERE (3)**

**5.C.Atmospheric Energy Exchanges (3)**

**5.C.i.Input of Moisture & Energy (3)**

**5.C.i.a.Evaporation and Transpiration (3)**

#	QID#	Ans	Thinking Skills	Difficulty	Standards
1	658	A		Unassigned	Capillary
2	2286	B		Unassigned	Archived Questions
3	6568	A		Unassigned	Infiltration
4	5965	C	Knowing	Basic	Climates and Local Water Budget
5	2556	A		Unassigned	Infiltration
6	868	B		Unassigned	Archived Questions
7	1298	C		Unassigned	Evaporation and Transpiration
8	4847	C		Unassigned	Evaporation and Transpiration
9	6512	D		Unassigned	Surface Water Runoff
10	6511	C		Unassigned	Surface Water Runoff
11	746	A		Unassigned	Infiltration
12	6227	D	Analyzing	Unassigned	Evaporation and Transpiration
13	3035	A		Unassigned	Infiltration
14	5764	D		Unassigned	Surface Water Runoff
15	5418	B		Unassigned	Permeability
16	320	B		Unassigned	Archived Questions

**Answer Key**  
**H20 cycle**

1. **A**
2. **B**
3. **A**
4. **C**
5. **A**
6. **B**
7. **C**
8. **C**
9. **D**
10. **C**
11. **A**
12. **D**
13. **A**
14. **D**
15. **B**
16. **B**