

CH 6: RUNNING WATER & GROUNDWATER STUDY GUIDE

Vocabulary

water cycle, infiltration, transpiration, evaporation, precipitation, condensation, surface runoff, gradient, discharge, tributary, meander, delta, floodplain, flood, zone of saturation, groundwater, water table, well, artesian well

Multiple Choice

- Which of these processes of the water cycle is a direct effect of the sun's energy?
 - formation of precipitation
 - runoff of water over soil
 - evaporation
 - seeping of water into soil
- Which factor is most important in determining the erosive power of a stream?
 - stream discharge
 - dissolved load
 - stream velocity
 - channel width
- How does water move from plants to the atmosphere?
 - Infiltration
 - Precipitation
 - Transpiration
 - Condensation
- By what process do streams and rivers move material?
 - Weathering
 - Infiltration
 - Mass wasting
 - Erosion
- Which of these features forms at the end of a stream?
 - Sinkholes
 - meanders
 - levees
 - deltas



Understanding Concepts

- Draw a picture that will summarize the major steps in the water cycle.
- How does a stream's gradient affect its velocity? *Velocity increases as gradient increases.*
- What are the main causes of floods? *Rapid spring snowmelt or heavy rain.*
- What is the relationship between a spring (surface water) and the water table? *Springs can form where the water table meets the ground surface.*
- Why are leaking landfills and septic tanks of concern to people who use groundwater? *They can enter the soil and pollute the groundwater.*

Critical Thinking

- Analyzing Concepts:** Why must Earth's water cycle be balanced in order for the system to work? *Would cause floods or drought if not balanced.*
- Relating Cause and Effect:** How would a reduction in friction in a stream channel affect the stream's velocity? *The speed of the water would increase.*
- Applying Concepts:** A stream's discharge decreases. Explain how this affects the stream. *Less water would slow the speed of the stream.*
- Where is the greatest percentage of Earth's fresh water located? *Ice at the poles (2%)*
- Oceans hold about 97 percent of Earth's water. The rest of the water is fresh. What percentage of Earth's water is freshwater that people can use for drinking, cooking, and growing crops? *1 percent*

Concepts in Action

- Applying Concepts:** A person drills a well into an area where there is a known aquifer underground. But the well doesn't produce water. What might be the cause of the problem? What does this person need to know about the water table in this area to solve the problem? *The well is not deep enough, above the water table. The person will need to dig deeper.*
- Predicting:** Erosion reduces the size of pebbles on the bottom of a stream channel. Which of the following would be most affected: the stream's competence, velocity, or discharge? Explain your answer. *Velocity, it would increase from less friction.*

Groundwater Study Guide Answer Key

Padhraic Smyth



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