Chapter 6 Running Water and Groundwater

Section 1 Running Water

Key Concepts

- What is the water cycle?
- What does it mean to say Earth's water cycle is balanced?
- What is the most important factor in determining the power of a stream to erode and transport material?
- How do gradient and discharge change between a stream's source and its mouth?
- What is a stream's base level?

Vocabulary

- water cycle
- infiltration.
- gradient
- stream channel
- discharge
- tributary
- meander

Water is everywhere on Earth—oceans, glaciers, rivers, lakes, air, soil, and living tissue. All of these reservoirs make up Earth's hydrosphere. Most of it—about 97.2 percent—is stored in oceans, as Figure 1 shows. Ice sheets and glaciers account for another 2.15 percent, leaving only 0.65 percent to be divided among lakes, streams, groundwater, and the atmosphere. The water found in glaciers, ice sheets, lakes, streams, groundwater, and the atmosphere may seem like a tiny percent of Earth's water, but the actual quantities are great.

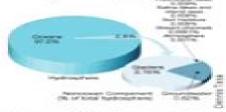


Figure 1 Distribution of Earth's Water Using Graphs What percentage of Earth's water is not held in its oceans?

The Water Cycle

Water constantly moves among the oceans, the atmosphere, the solid Earth, and the biosphere. This unending circulation of Earth's water supply is the water cycle. This cycle is possible because water readily changes from one state of matter—solid, liquid, or gas—to another at temperatures and pressure common on Earth's surface. The water cycle, shown in Figure 2, is a gigantic worldwide system powered by energy from the sun. The atmosphere provides the most important link between the oceans and land. Water evaporates into the atmosphere from the ocean, and to a lesser extent from the continents. Winds transport this moisture-rich air until conditions cause the moisture to condense into clouds. Precipitation—rain and snow—then falls to Earth. Precipitation that falls into oceans has completed one full cycle and is ready to begin another. However, water that falls on land must make its way back to the ocean to complete the full cycle.

Section 6 Running Water

Xiang Xie

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The Enigmatic Realm of Section 6 Running Water: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Section 6 Running Water** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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