- 305-

O Precipitation Over Ocean......B



Chapter 11-9: The Water

Cycle

Water is the most abundant substance in kving things. The human body, for example, is composed of dator 70% water, and julyfish are 50% water, Water participates in mony important blochemical mechanisms, including photosynthesis, digestion, and cellular respiration. It is also the habitat for many species of plants, animate, and incroorganisms, and it porticipates in the cycling of all of the materials used by living things. Water is distributed through the biosphere in a cycle lower as the water, or the state of the materials used by living things. Water is distributed through the biosphere in a cycle lower as the water, or the state of the materials used by living things. gic cycle. In this plate, we will examine some aspects of

In this plate, we show the bloophers and several arrows that strow the movement of water through it. Our primary emphasis will be on the arrows, and you should other than in durtar colors than the other aspects of the biosphere.

We begin by looking at the atmosphere, which includes the clouds. When water vapor cools, it conclesses and falls to Earth as min. For instance, book at the arrow lobeled (A), or precipitation over land; growly draws the water back to Earth in the form rain, sleet, and snow. Precipitation also occurs over oceans (B).

We have begun our discussion of the water cycle by showing how water reaches the Earth. We will now see how it is stared in living things before it is returned to the atmosphere. Continue your reading as you color the diagram, including its arrows.

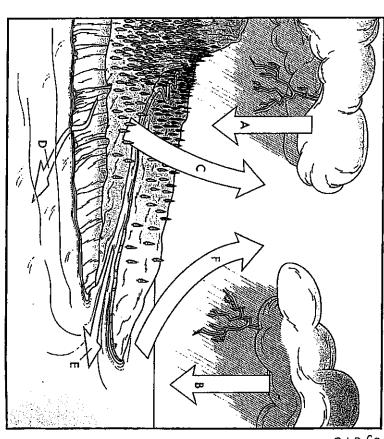
phere through evaporation from the soil and from numerous other sources, in general, the amount of precipitation received by an erea helps determine what types of plants will grow there. The The living things on Earth are represented, in our diagram, by the trees. Water is absorbed by the roots of the trees and used in photosynthesis, but it is also lost from their leanes through the process of transpiration (C). Water also returns to the atmos-

> equifer, and water seeps from the aquifer to the accom.
> Water also reaches the ocean as runoff from the surface (E).
> Runoff from the surface includes flow from rivers as well as meth-Water from the land enters the acean through seepage from the ground [D]; it percolates from the surface down to the water table. This water-saturated zone of soil and rock is called an

ing snowfields and glaciers.

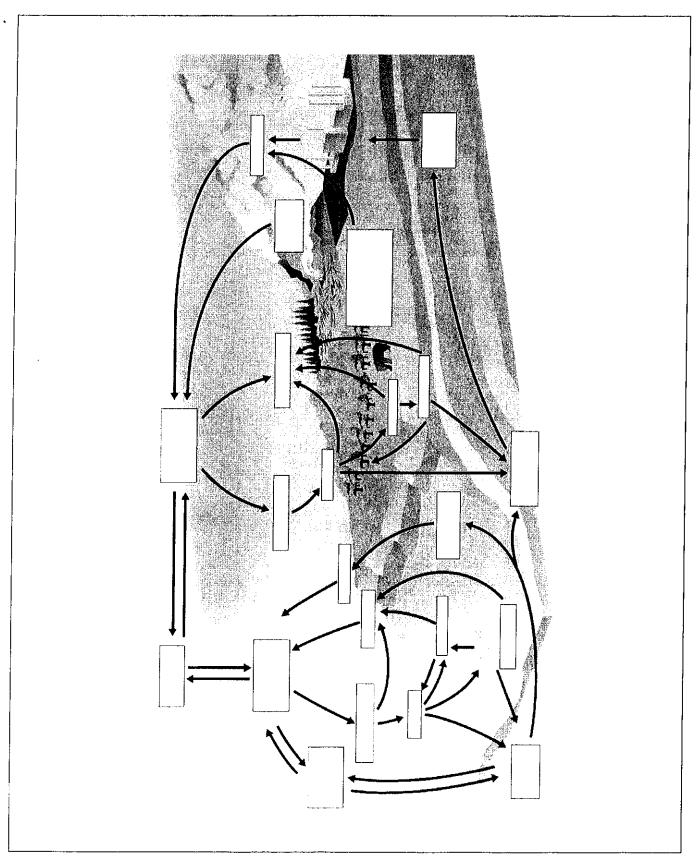
Now that we have described how water reaches the oceans, we will explare how it returns to the atmosphere, completing the hydrologic cycle. Continue reading below as you camplete your coloring.

Oceans cover about linear-quarters of Earth's surface and contain about 97% of its water. Solar radiation causes water's evaporation from the accent \$1. Over 80% of the evaporated water in the bydrologic cycle enters the atmosphere in this way, and about 52% of this falls back into the access in the form of rain. The remainder remains in the atmosphere as clouds, ice crystals, and water vapor and then precipitates over land. On a global scale, the he quantity of ocean water that evaparates each year is equiva-lent to a layer that's 120 cm deep and cavers the entire surface The major reservoirs of water on Earth are the oceans

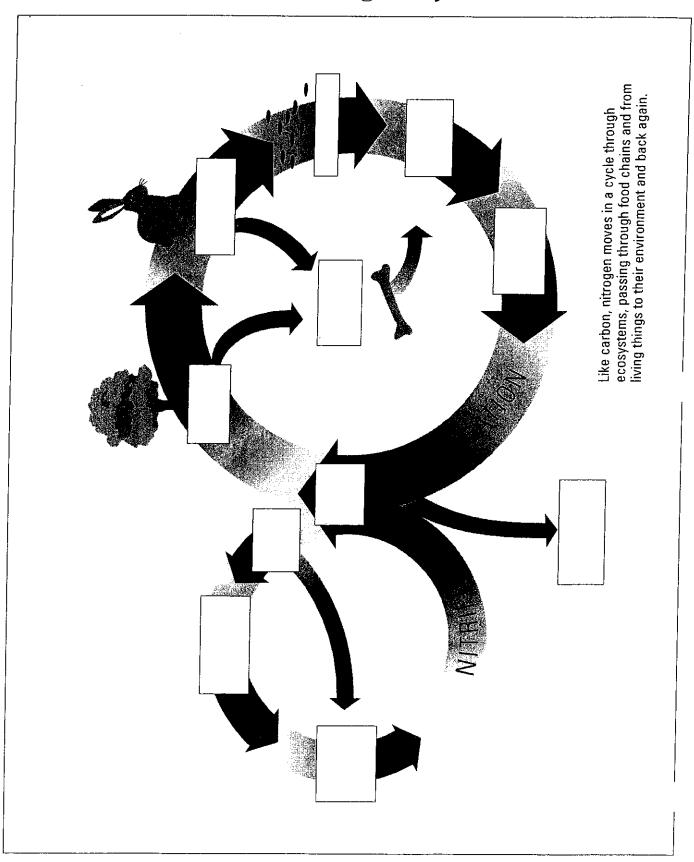


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	Land O Seepage From Ground D O Evaporation from	O Transpiration O Runoff from Surface E	The Water Cycle	A STREET OF THE PROPERTY OF TH
Ocean	O Evaporation from	O Runoff from SurfaceE		A THE LAND OF THE

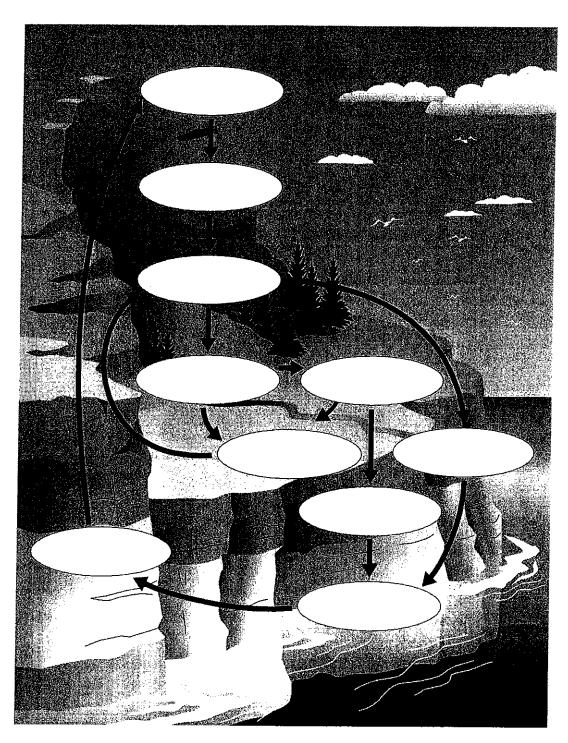
Blackline Master 2.5 The Carbon Cycle



Blackline Master 2.6a The Nitrogen Cycle



Blackline Master 2.6b The Phosphorus Cycle



Phosphates cycle in both long and short cycles.