

Student Worksheet: Phosphorus Life Cycle	(TEACHER KEY)	

Extraction: Phosphate ore is accessed and mined in open pits. When excavating the ore, material overlying the phosphate-rich beds is removed.	Decomposition: The process in which large or complex molecules are broken down into simpler ones. This process is essential to a healthy ecosystem because it aids in the nutrient cycling of molecules such as phosphorus.
Uptake:	Runoff:
Nutrient uptake by crops depends on	Phosphorus is carried in runoff water from
nutrient supply in the soil, root surface	agricultural fields into streams, wetlands
area, and root activity. Roots are able to	and lakes. It can travel attached to particles
absorb only the nutrients that come into	of soil or manure eroded by water into a
contact with living and active cells, so	stream. Phosphorus also can dissolve into
phosphorus uptake is dependent on the	runoff water as it passes over the surface
condition of a plant's root system.	of the field

Write the definition for each term in the boxes.

Indicate on the phosphorus cycle where the following processes may occur: (A) Decomposition, (B) Runoff, (C) Extraction, (D) Uptake