

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# The Phosphorus Cycle Notes

Fill out the notes below by reading the Phosphorus Cycle Tutorial. Press the F5 button to start the tutorial.

## Why is Phosphorus Important?

- Three important molecules made with phosphorus are:
  1. DNA
    - Sugar, Nitrogen Base, and \_\_\_\_\_ Group
  2. ATP
    - Adenosine Tri\_\_\_\_\_
    - Used by cells for \_\_\_\_\_
  3. \_\_\_\_\_ lipids
    - Makes up the cell \_\_\_\_\_
- Rocks are lumps of \_\_\_\_\_
- One mineral released from rocks is \_\_\_\_\_
- Wind, cold, and \_\_\_\_\_ cause rocks to crumble

## Make It Rain

- Rain causes phosphorus to be released from \_\_\_\_\_
- The roots of \_\_\_\_\_ can absorb \_\_\_\_\_

## The Producers

- Plants absorb phosphorus through their \_\_\_\_\_
- Plants need phosphorus to make DNA, phospholipids, and \_\_\_\_\_

## The Consumers

- Herbivores obtain phosphorus by \_\_\_\_\_ plants
- Animals need phosphorus to make ATP, \_\_\_\_\_, and DNA

## Up the Food Chain

- Draw a food chain below that includes a hawk, plant, frog, and snail.
  
- Label the producer, primary consumer, secondary consumer, and tertiary consumer in your food chain

## The Decomposers

- Examples: Bacteria and \_\_\_\_\_
- Decomposers need phosphorus to make \_\_\_\_\_, phospholipids, and ATP
- Decomposers release waste that contains \_\_\_\_\_ back into the ecosystem
- Phosphorus from decomposers can be reused by \_\_\_\_\_

## The Human Factor

- Humans are \_\_\_\_\_ the phosphorus cycle
- There is extra phosphorus found in \_\_\_\_\_, which are used by humans to help \_\_\_\_\_ grow better

## Why is this Bad?

- Phosphorus from humans is often washed away by \_\_\_\_\_
- The extra phosphorus collects in rivers, \_\_\_\_\_, and \_\_\_\_\_
- The extra phosphorus causes extreme growth of \_\_\_\_\_
  - Algal blooms use up the \_\_\_\_\_ in the pond

## Is There Any Hope?

- \_\_\_\_\_ food does not contain extra \_\_\_\_\_
- Try not to use fertilizers in your home \_\_\_\_\_
- Food sold at \_\_\_\_\_ markets are usually \_\_\_\_\_
- The Beverly Hills Farmer's Market is on \_\_\_\_\_ from \_\_\_\_\_ am to \_\_\_\_\_ pm