

Name _____

Per _____

PART 3: APES CONTENT
#1

Instructions: print out and write your answers directly on this paper.
Handwritten only.

Crash Course: Nitrogen and Phosphorus Cycle Guided Viewing Worksheet

1. What percent of nitrogen and phosphorus are in an animal's body?
2. What do we need Nitrogen to make?
3. What do we need Phosphorus to make?

The Nitrogen Cycle:

4. What percentage of the atmosphere is Nitrogen? What form is atmospheric Nitrogen in?
5. What is the chemical formula for Nitrate? ___ Nitrite? ___ Ammonium? ___
6. What is Nitrogen Fixation?
7. What are Nitrogen Fixing Bacteria?
8. What plants are in the Legumes Family? What does it mean that they form a symbiotic relationship?
9. What form of Nitrogen is usable by plants? What enzyme makes it useful?
10. What does Nitrifying bacteria do?
11. What other things can break Nitrogen molecules apart?
12. What is Denitrifying bacteria? Which enzyme does this?

The Phosphorus Cycle

13. What is special about the Phosphorus Cycle?
14. What is the Lithosphere? What special type of rock is rich in Phosphorus?
15. What is a lithotroph?
16. How do Phosphates end up in the water? In the Soil?
17. A single Phosphorus atom can get trapped in a cycle for how long?
18. Diagram a real world example of the Phosphorus Cycle on the back side of this paper.
19. What are the main ingredients in fertilizers?
20. Why is too much of Nitrogen and Phosphorus bad for the environment?