

Crash Course: Nitrogen and Phosphorus Cycle Guided Viewing Worksheet

Name: _____

1: What *percent* of nitrogen and phosphorus are in an animal's body?

Note: We are considered to be animals too!

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** the Phosphorus Cycle below:

19: What are the **main ingredients** in fertilizers?

20: Why is too much of Nitrogen and Phosphorus bad for the environment?