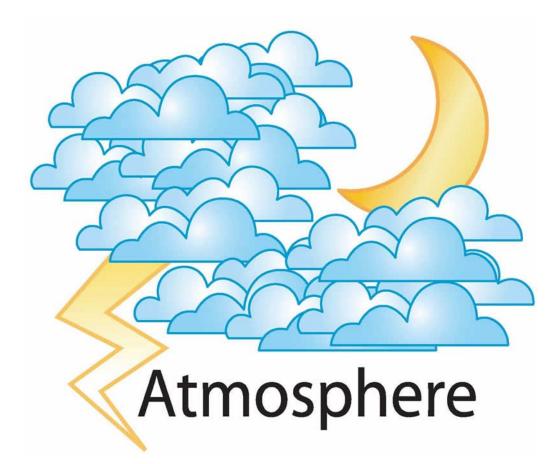
Traveling Nitrogen DICE CODES AND RESERVOIR STATION SIGNS

Instructions:

- 1. Hang these dice codes signs at stations around the classroom.
- 2. Equip each station with dice and either, a rubber stamp

and ink pad, or, paper stamps from the stamp templates.

- 3. Provide each student with a passport worksheet
- 4. Distribute students so that there are a few at each station
- 5. Then everyone can begin traveling like nitrogen!

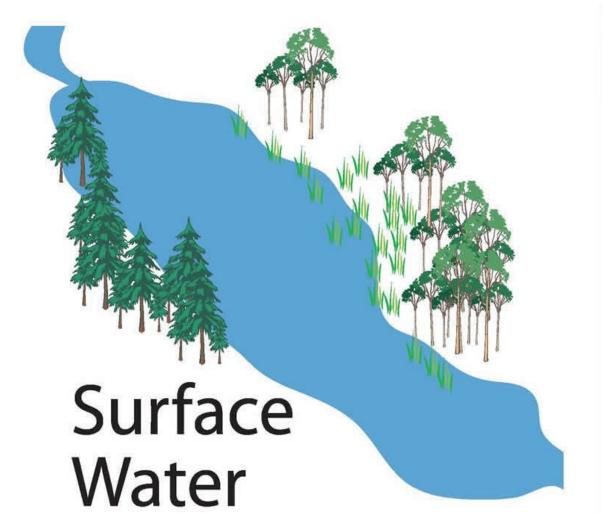


If your die reads: 1 or 2 Lightning strikes! Nitrogen gas is make into a solid and travels to the soil!

If your die reads: 3 Blue-green algae and bacteria change you into a solid, bringing you to the soil!

If your die reads: 4 Bean plants extract you from the air and bring you to the soil!

If your die reads: 5 or 6 Some nitrogen can get into the water in clouds and then fall as rain!



If your die reads: 1 or 2

You are just the sort of nitrogen that plants need to live. You are now within a **live plant!**

If your die reads: 3 or 4 You travel through the rivers and streams to the **ocean!**

If your die reads: 5 or 6 You percolate deep underground in the groundwater!



If your die reads: 1 You fall into a lake or stream so now you are part of **surface water.**

If your die reads: 2 or 3 You fall on the land and become part of the soil!

If your die reads: 4 You percolate deep underground in the groundwater!

If your die reads: 5 or 6 You rain into the **ocean**!

Groundwater



Put a stamp on your passport and then roll the die to see where you will travel next!

If your die reads: Odd numbers (1, 3, or 5)

The groundwater you are dissolved within travels and you become part of the **surface** water!

If your die reads: Even numbers (2, 4, or 6)

The groundwater you are dissolved within travels and you become part of the ocean!



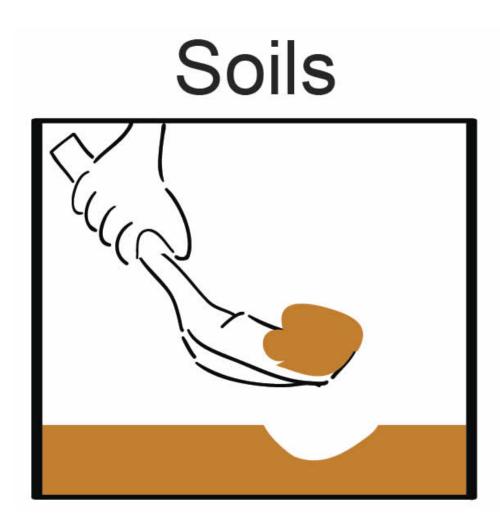
Put a stamp on your passport and then roll the die to see where you will travel next!

If your die reads: 1 or 2

You dissolve and wash into the surface water!

If your die reads: 3 or 4 You become part of the **soil!**

If your die reads: 5 or 6 You are just the sort of nitrogen that plants need to live. You are now within a live plant!

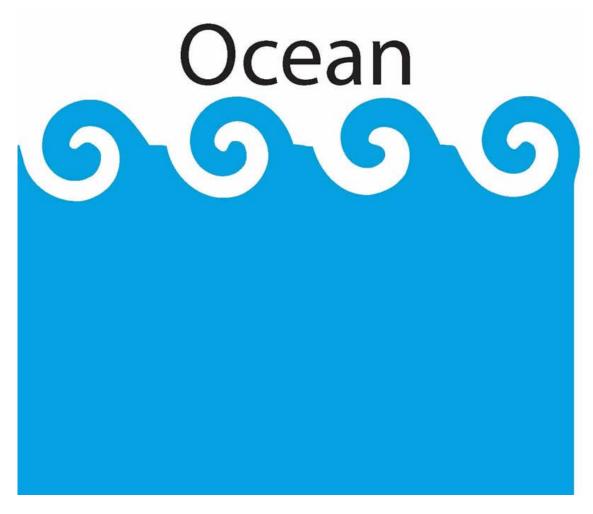


If your die reads: 1 You dissolve and wash into the groundwater!

If your die reads: 2 You dissolve and wash into the surface water!

If your die reads: 3 or 4 You are just the sort of nitrogen that plants need to live. You are now within a live plant!

If your die reads: 5 or 6 Bacteria have transformed you into nitrogen gas and you are now part of the **atmosphere!**



Put a stamp on your passport and then roll the die to see where you will travel next!

If your die reads: 1 Look out! Water is on the move! You have washed into the groundwater!

If your die reads: 2 or 3 You are just the sort of nitrogen that plants need to live. You are now within a live plant!

If your die reads: 4, 5, or 6 Bacteria have transformed you into nitrogen gas and you are now part of the **atmosphere!**



If your die reads: Odd numbers (1, 3, or 5)

The animal that you are within has died. Go to dead plants and animals.

If your die reads: Even numbers (2, 4, or 6)

Congratulations! The animal that you were within has excreted and you are in its waste. Go to **animal waste!**



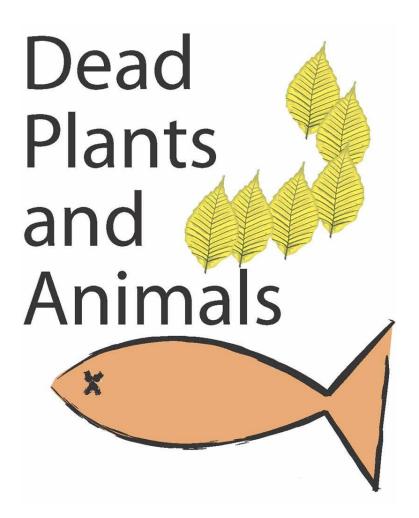
If your die reads: 1 or 2

Look out before someone steps in you! Now you are decomposing in the soil!

If your die reads: 3 or 4

A farm supply company has picked you up and made you into fertilizer!

If your die reads: 5 or 6 What's that in the water? You have dissolved into surface water!



If your die reads: 1 or 2 You are decomposed and become part of the soil!

If your die reads: 3 You are decomposed and become dissolved in surface water!

If your die reads: 4 You are decomposed and become dissolved in the ocean!

If your die reads: 5 or 6 Forest Fire! The wood you were within is burnt and you have been released into the **atmosphere.**



If your die reads: Odd numbers (1, 3, or 5) The plant that you are within has died. Go to **dead plants and animals.**

If your die reads: Even numbers (2, 4, or 6) An animal has eaten the plant that you are within! Go to live animals!