

Welcome to the *Atmosphere!*



If you get a 1: A storm rolls in and lightning strikes! N_2 in the atmosphere combines with oxygen and becomes N_2O . It starts to rain and you end up in the **soil**.

If you get a 2: Blue green algae and bacteria convert you into NH_3 for seaweed, bringing you into the **ocean**.

If you get a 3, 4, or 5: **Humans** extract N_2 from the air.

If you get a 6: Bacteria extract you from the air and bring you to the **soil** in the form of NO_3 .

Welcome to a *Lake!*



If you get a 1, 2, or 3: You are NO_3 which plants need to live. You are absorbed by the roots and now are within a **live plant**.

If you get a 4, 5, or 6: You travel through a connecting river and eventually make it into the **ocean** as NO_3 .

Welcome to *Rain!*



If you get a 1 or 2: You fall into a **lake** as NO_3 .

If you get a 3 or 4: You fall on land and become part of the **soil** as NO_3 .

If you get a 5 or 6: You fall into the **ocean** as NH_3 .

Welcome to *Fertilizers!*



If you get a 1 or 2: You dissolve into NO_3 and wash into a lake.

If you get a 3 or 4: You are NO_3 , the exact form of nitrogen that plants need to live. A flower's roots absorb you and you are now within a **live plant**.

If you get a 5 or 6: You are released as N_2O in the process of denitrification and end up in the **atmosphere**.

Welcome to the *Soil!*



If you get a 1 or 2: You become part of a protein and wash into a **lake**.

If you get a 3 or 4: You are NO_3 , the exact form of nitrogen that plants need to live. A flower's roots absorb you and you are now within a **live plant**.

If you get a 5 or 6: Bacteria have transformed you into nitrogen gas (N_2) and you are now part of the **atmosphere**.

Welcome to the Ocean!



If you get a 1: A big storm washes you inside of a wave onto land and you flow into a small **lake**.

If you get a 2 or 3: You are NO_3 , the exact form of nitrogen that seaweed needs to live. The seaweed absorbs you and you are now within a **live plant**.

If you get a 4, 5, or 6: Bacteria have transformed you into nitrogen gas (N_2) and you are now part of the **atmosphere**.

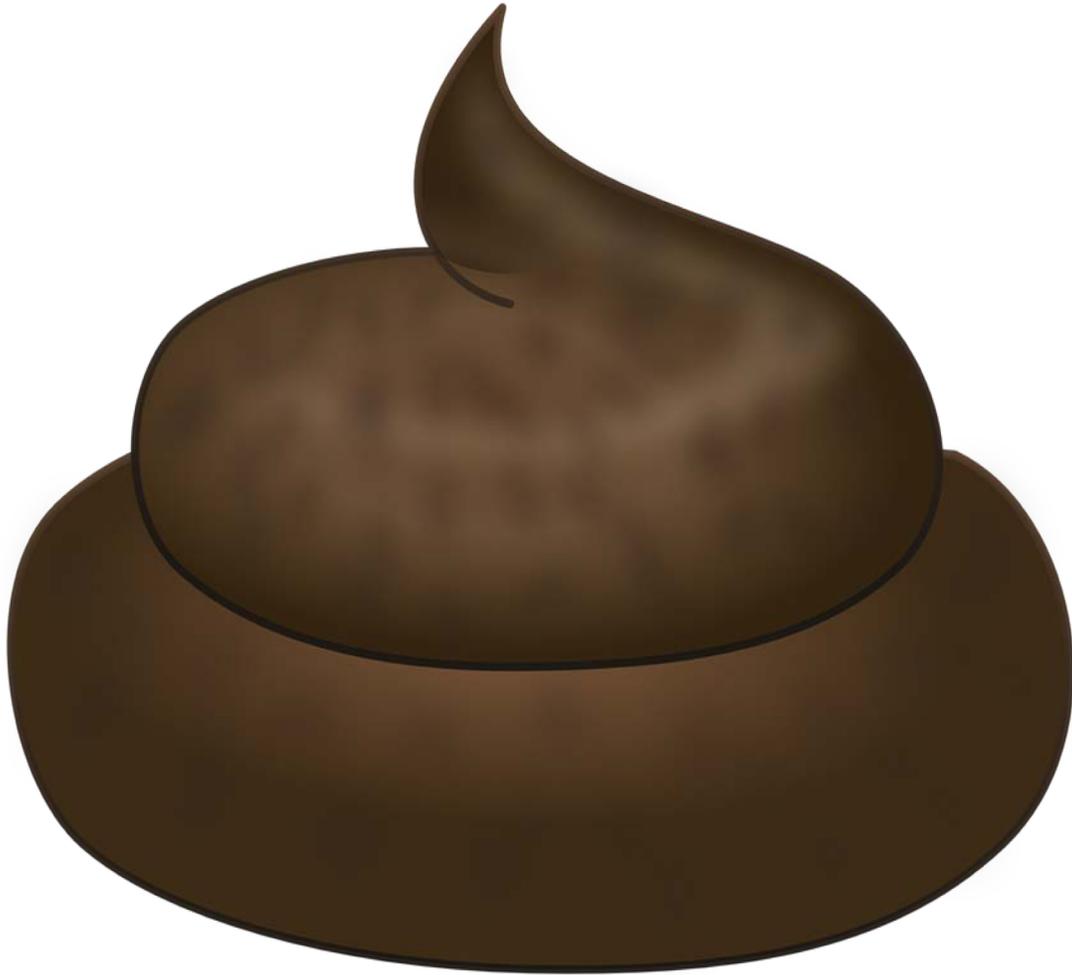
Welcome to *Live animals!*



If you get a 1, 2, or 3: The animal that you are within has died. Go to **dead plants and animals** as NH_4 .

If you get a 4, 5, or 6: The animal you are within has peed or pooped. You are now in **animal waste** as urea.

Welcome to *Animal waste!*



If you get a 1 or 2: Bacteria and fungi break you down into NH_4 . You have decomposed into the **soil**.

If you get a 3 or 4: A farming supply company has scooped you up and put you into **fertilizer** as NH_3 .

If you get a 5 or 6: it rains and you dissolve into the runoff as NH_4 and flow until you reach a **lake**.

Welcome to *Dead plants and animals!*



If you get a 1 or 2: Bacteria and fungi break you down and you decompose into NH_4 in the **soil**.

If you get a 3: Bacteria and fungi break you down and you decompose into NO_3 . It rains and you dissolve in the rainwater until flowing into the **ocean**.

If you get a 4: Bacteria and fungi break you down and you decompose into NO_3 . It rains and you dissolve in the rainwater until flowing into a **lake**.

If you get a 5 or 6: A tree absorbs you through its roots. Unfortunately it gets caught on fire when it gets struck by lightning. You are released into the **atmosphere** as N_2O .

Welcome to *Live plants!*



If you get a 1, 2, or 3: The plant that you are within has died. Go to **dead plants and animals** as NH_4 .

If you get a 4, 5, or 6: An animal has eaten the plant you are in as NO_3 . You are now in a **live animal**.

Welcome to **Humans!**



If you get a 1, 2 or 3: You are used as a fuel source to power a car. During the process of combustion, you are released as N_2O into the **atmosphere**.

If you get a 4 or 5: You are assimilated into a human's body as DNA or RNA. Stay at **humans**.

If you get a 6: You are converted into NH_3 and used in a **fertilizer**.