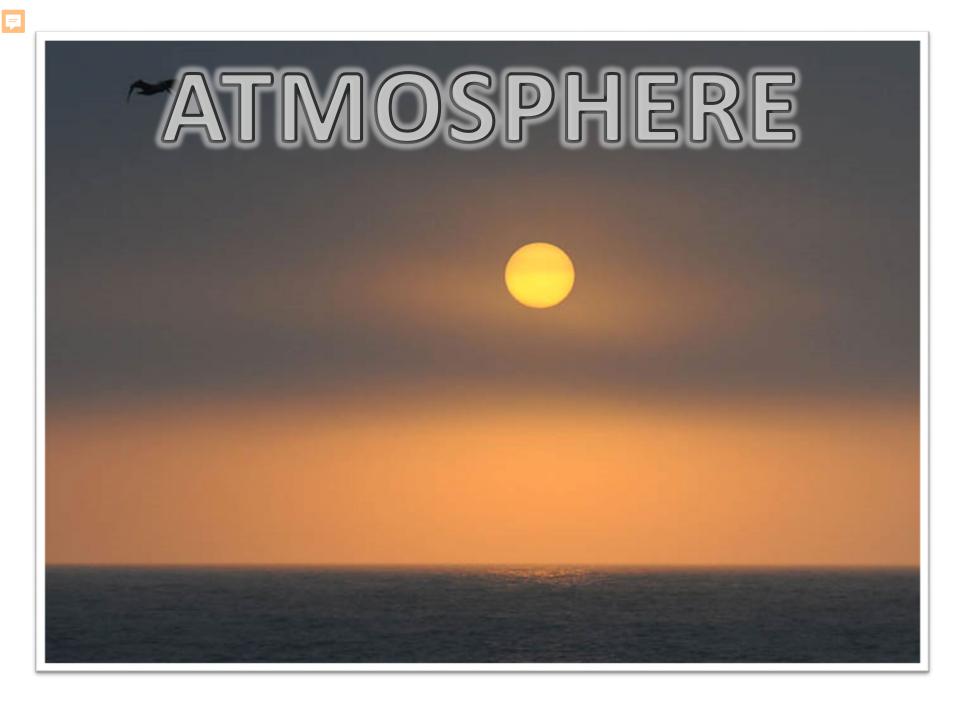
Carbon Cycle Station Cards

Each station includes two pages: one photograph and one set of directions for movement among stations. The numbered instructions correspond to the roll of the die.

Atmosphere

- 1. You continue to circulate through the atmosphere. **Stay at Atmosphere.**
- 2. You continue to circulate through the atmosphere. **Stay at Atmosphere.**
- 3. In a forest, a pine tree needle absorbs and uses carbon dioxide during <u>photosynthesis</u>. **Go to Forest.**
- 4. In a forest, a pine tree needle absorbs and uses carbon dioxide during photosynthesis. **Go to Forest.**
- Near the East coast, you <u>dissolve</u> into the waters of the Atlantic Ocean.
 Go to Surface Ocean.
- Near the East coast, you <u>dissolve</u> into the waters of the Atlantic Ocean.
 Go to Surface Ocean.



Forest

- Through <u>respiration</u>, a tree uses your sugar molecule for energy.
 Go to Atmosphere.
- 2. The pine cone where you have been stored is <u>eaten</u> by an Eastern fox squirrel. **Go to Animals.**
- 3. You become <u>sequestered</u> in a tree's trunk. After several years, your tree gets cut down. **Go to Wood Products.**
- 4. You become <u>sequestered</u> in a tree's trunk. After several years, your tree gets cut down. **Go to Wood Products.**
- 5. You become <u>sequestered</u> in a tree root which dies and decays. **Go to Soil Carbon.**
- 6. A fire moves through the forest and <u>burns</u> the tree where you have been stored. **Go to Atmosphere.**



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Soil Carbon

- 1. As the organic matter decomposes, you become carbon dioxide through <u>soil respiration</u>. **Go to Atmosphere.**
- 2. As the organic matter decomposes, you become carbon dioxide through <u>soil respiration</u>. **Go to Atmosphere.**
- An insect <u>eats</u> the rotting material where you are located.
 Go to Animal.
- 4. An insect <u>eats</u> the rotting material where you are located. **Go to Animal.**
- 5. You become buried in layers of leaf litter and soil. **Stay at Soil Carbon.**
- 6. You become buried in layers of leaf litter and soil. **Stay at Soil Carbon.**



Animals

- 1. A bird eats you for dinner. **Stay at Animal.**
- 2. You are stored in animal fat cells. **Stay at Animal.**
- You get released as carbon dioxide during <u>respiration</u>.
 Go to Atmosphere.
- You get released as carbon dioxide during <u>respiration</u>.
 Go to Atmosphere.
- 5. When the animal <u>produces waste</u>, you find yourself on the forest floor in a pile of poop. **Go to Soil Carbon.**
- 6. The animal dies and begins to <u>break down</u> on the forest floor. **Go to Soil Carbon.**



Wood Products

- 1. The lumber where you are sequestered is used to build a house. **Stay at Wood Products.**
- 2. The lumber where you are sequestered is used to build a house. Stay at Wood Products.
- 3. After many years, the lumber gets thrown in a pile of old wood and begins to rot and <u>break down</u>. **Go to Soil Carbon.**
- 4. You are <u>eaten</u> by termites. **Go to Animals.**
- 5. After many years, the lumber where you are sequestered gets <u>burned</u> for firewood. **Go to Atmosphere.**
- 6. After many years, the lumber where you are sequestered gets <u>burned</u> for firewood. **Go to Atmosphere.**

WOOD PRODUCTS

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Surface Ocean

- Through wave action, you mix with air and come out of the water <u>leaving solution</u> as carbon dioxide gas. Go to Atmosphere.
- Through wave action, you mix with air and come out of the water
 <u>leaving solution</u> as carbon dioxide gas. Go to Atmosphere.
- 3. You continue mixing in water near the surface of the ocean. **Stay at Surface Ocean.**
- 4. Water currents and <u>ocean mixing</u> send you deeper within the ocean. **Go to Deep Ocean.**
- An algae plant takes you in during <u>photosynthesis</u>.
 Go to Marine Life.
- An algae plant takes you in during <u>photosynthesis</u>.
 Go to Marine Life.





Deep Ocean

- 1. <u>Ocean mixing</u> and water currents send you toward the surface. **Go to Surface Ocean.**
- 2. <u>Ocean mixing</u> and water currents send you toward the surface. **Go to Surface Ocean.**
- 3. <u>Ocean mixing</u> and water currents send you toward the surface. **Go to Surface Ocean.**
- 4. <u>Ocean mixing</u> and water currents send you toward the surface. **Go to Surface Ocean.**
- Water currents send you deeper within the ocean.
 Stay at Deep Ocean.
- Water currents send you deeper within the ocean.
 Stay at Deep Ocean.





Marine Life

- 1. You are eaten by a tiny marine animal, called zooplankton. **Stay at Marine Life.**
- You are eaten by a tiny marine animal, called zooplankton.
 Stay at Marine Life.
- 3. You are exhaled through <u>respiration</u>. **Go to Surface Ocean.**
- 4. You are exhaled through <u>respiration</u>. **Go to Surface Ocean.**
- 5. The organism you are part of dies. You <u>break down</u> and sink through the waters of the Atlantic Ocean. **Go to Deep Ocean.**
- 6. The organism you are part of dies. You <u>break down</u> and sink through the waters of the Atlantic Ocean. **Go to Deep Ocean.**

MARINE LIFE

