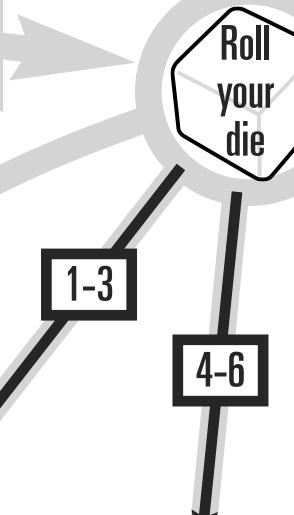
ATMOSPHERE

You are in a molecule of carbon dioxide.

Inorganic Carbon

When you arrive at this location, put a tally mark in the Atmosphere Pool.

ATMOSPHERE



Remain in the atmosphere

- Stay at the atmosphere location.
- Put another tally mark in the atmosphere pool.
- You are inorganic carbon, so do not pick up a twist tie.
- Roll again.

Photosynthesis

- Sunlight is transformed into chemical energy in your bonds. Take one energy twisttie from the sunlight pile.
- Go to the producer location and follow the directions there.



PRODUCER

You are in a sugar molecule in a plant.

Organic Carbon

When you arrive at this location, put a tally mark in the Producer Pool.



1-2

3-6

Cellular Respiration

- Chemical energy in your bonds is transformed into heat. **Leave** your twist-tie in the heat pile.
- Go to the atmosphere location and follow the directions there.

Biosynthesis

You become part of the producer.



- Put another tally mark in the producer pool.
- You still have chemical energy in your bonds. **Keep** your twist-tie.
- Roll again.

Roll your die

Death

- Go to the soil organic carbon pool and follow the directions there.
- You still have chemical energy in your bonds. Keep your twist-tie.

You Got Eaten

- Go to the herbivore pool and follow the directions there.
- HERBIVORE

 You still have chemical energy in your bonds. Keep your twist-tie.

HERBIVORE

You are in a food molecule in an herbivore's stomach.

Organic Carbon

When you arrive at this location, put a tally mark in the Herbivore Pool.



Cellular Respiration

- Chemical energy in **ATMOSPHERE** your bonds is transformed into heat. Leave your twist-tie in the heat pile.
- Go to the atmosphere location and follow the directions there.

Digestion/ **Biosynthesis**

You become part of the herbivore's body.



 You still have chemical energy in your bonds. Keep your twist-tie.

Roll again.



Defecation

You were in a carbon molecule that was not digestible.



- Go to the soil organic pool and follow the directions there.
- You still have chemical energy in your bonds. **Keep** your twist-tie.

Death

- Go to the soil organic carbon pool and follow the directions sollows there.
- You still have chemical energy in your bonds. **Keep** your twist-tie.

- Go to the carnivore pool and follow the directions there.
- You still have chemical energy in your bonds. Keep your twisttie.





CARNIVORE

You are in a food molecule in a carnivore's stomach.

Organic Carbon



Cellular Respiration

- Chemical energy in your bonds is transformed into heat. **Leave** your twist-tie in the heat pile.
- Go to the atmosphere location and follow the directions there.

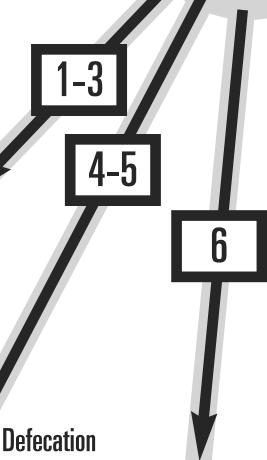
Digestion/Biosynthesis

You become part of the carnivore's body.

- Put another tally mark in the carnivore pool.
- After growing and living for a while, the carnivore dies.
- Go to the soil organic carbon pool and follow the directions there.
- You still have chemical energy in your bonds. Keep your twist-tie.

When you arrive at this location, put a tally mark in the Carnivore Pool.

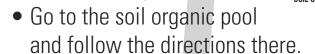
CARNIVORE



VOUI

die

You were in a carbon molecule that was not digestible.



 You still have chemical energy in your bonds. Keep your twist-tie. SOIL When you arrive at this location, put a tally mark in the Soil Organic Pool. **ORGANIC CARBON** LOCATION

your die

Cellular Respiration

- While you are in soil, a decomposer eats you.
- Chemical energy in your bonds is transformed into heat. Leave your twist-tie in the heat pile.
- Go to the atmosphere location and follow the directions there.

Digestion/Biosynthesis

You become part of a decomposer.

- Put another tally mark in the soil organic carbon pool.
- You are eaten and digested by a decomposer and become part of it's body.
- After growing and living for a while, the decomposer dies.
- You still have chemical energy in your bonds. **Keep** your twist-tie.
- Roll again.





Remain Undecayed

You are in a molecule that is tough to decay.

- Put another tally mark in the soil organic carbon pool.
- You still have chemical energy in your bonds. Keep your twist-tie.
- Roll again.



ATMOSPHERE