Name Date Block 1 3 4

NITROGEN & CARBON CYCLES

Through this web quest you will learn about the nitrogen and carbon cycles. We know that matter continually cycles through different parts of the Earth, including both living and non-living things.

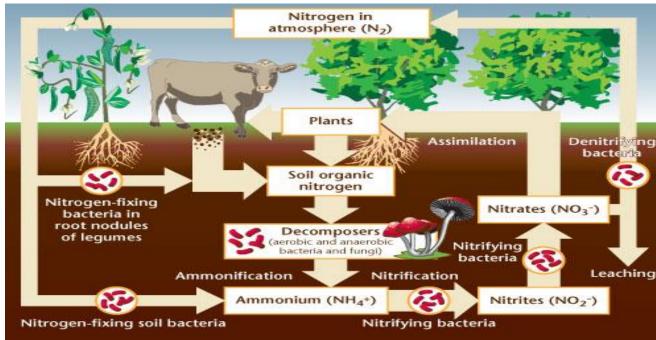
THE TASK:

- 1) Navigate to the designated website.
- 2) Click "PLAY VIDEO"
- 3) As you watch each clip, be sure to take notes! HINT: You can pause and rewind the clips as needed.
- 4) 4) once complete, review your notes, study the visual diagram
- 5) When ready, click "TAKE THE QUIZ".

SECTION #1 THE NITROGEN CYCLE

	THE NITROGEN CYCLE				
М	y Notes				
A.	True or False: All bacteria is bad.				
Ъ.	The Nitrogen Cycle is				
С.	True or False: Animals 4 plants can't use nitrogen as a <i>gas</i> .				
d.	First: Nitrogen gas travels from the to the and right into the nodules.				
ℓ .	Then the bacteria turn the nitrogen into				
f.	Plants cantuse the ammonia, so the bacteria in the soil change it into				
Ø.	Plants still can't use the nitrites so a different bacteria turn it into				
Ń.	That whole process is called				
į.	If plants get nitrates from the soil , where do animals get nitrates from?				
	or from other animals that eat plants.				
j.	How do the nitrates turn back into nitrogen gas? Plants and animals and they excrete (release				
K.	Everything decays and thanks to a special bacteria called				
	Decomposers are bacteria which				
	summarize the points at the end of the clip in your own words:				
	l				
	3				
	4				
H	owever, nitrogen buildup in the air can cause and and That can be				
	ery problematic can cause lots of breathing issues.				

2) Visualize It!



3)	Quiz Yourself				
	l.	What is the nitrogen cycle?			
	2.	How do humans get nitrogen?			
	3.	what comes first in the process of nitrification?			
	4.	How do nitrates turn back into nitrogen gas?			
	5.	what is one of the key components of the nitrogen cycle?			
	6.	what do plants and animals use nitrates for?			
	7.	How are people upsetting the nitrogen cycle?			

RECORD YOUR SCORE BELOW

My Notes
Many scientists think global warming might be one of the things that makes the earth
The Greenhouse Effect is

Carbon	
AN ELEMENT	
Found in every	
Constantly being recycled	
The CARBON CYCLE is	
Respiration is	
Photosynthesis is	
 When an animal or plant dies, decomposers (like bacteria)	
when that matter is broken down, carbon is released!	
Some is released into the air, some stays in the $____$	It can be turned into
, like oil and coal	
The carbon can combine with oxygen to form	, which plants used for
photosynthesis. Socceptiones too coulder foosil final is lowered to deigle consequent too con-	uple acycleon is replaced into the a give This age land t
Sometimes too much fossil fuel is burned, which means too m toe areanhouse affect	och carbori is released trilo the air. This can lead to
the greenhouse effect. SUMMAR	J
Summarize the points in you	
? ?	
3	
4	
Visualize it!	
Sunlight Carbon dioxide	
in atmosphere	
* *	
Photosynthesis	Plant
Anin	nal respiration Factory
Organic carbon respira	ition
PK FI.	- Charles
Dead organism	
	Carbonates in water
	III Water
Fossils and fossil fue	
Quiz Yourself	

3.	How does carbon get cycled back into the earth?				
4.	does carbon dioxide cycle back and forth between plants?				
5.	what happens to the carbon that has been in the soil for millions of years?				
6.	What happens when gases, like carbon dioxide, get trapped in the atmosphere?				
7.	What adds to the greenhouse effect and global warming?				
	RECORD YOUR SCORE BELOW				
	Your Score:7 and%				

THE CARBON CYCLE — WINDOWS TO THE UNIVERSE GAME

where you went	How you got there	where you went next
	-	