- 1. What is the rocky part of earth called which is mostly solid and extends from the crust to the core?
- 2. What do scientists call the sphere of earth that is water?
- 3. What do scientists call the sphere of earth that contains life?
- 4. What do scientists call the sphere of gases that surround Earth?
- 5. What is a reservoir?

6.	Absorption	А	Water changing from liquid to gas and flying up into the
			air
7.	Condensation	В	Liquid or solid waste that exits a creature
8.	Evaporation	С	The process of breaking down sugar to get energy. It also
			releases water and carbon dioxide as waste.
9.	Excretion	D	Any form of water falling from the sky
10.	Infiltration	Е	Water seeping into plant roots
11.	Precipitation	F	Water evaporating out of plants
12.	Respiration	G	Water changing from gas into liquid and becoming visible
			as a cloud
13.	Run off	Н	Water flowing across land that is impermeable
14.	Transpiration	I	Water soaking into the ground

Match the following processes that are part of the water cycle.

- 15. Why do living things need carbon?
- 16. How does carbon get out of limestone?

17.	Biomineralization	А	Eliminating carbon by waste exiting a creature's body
18.	Combustion	В	Bringing fossil fuels up out of the Earth
19.	Decomposition	С	Process of taking carbon dioxide out of the
			atmosphere and into the tissues of a plant
20.	Diffusion	D	Process of releasing carbon dioxide into the air due to
			breaking down sugar for energy
21.	Excretion	E	Process of making limestone (carbon rich rock)

## Match the following processes that are part of the carbon cycle.

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22.	Extraction	F	Process of releasing carbon dioxide into the air due to
			burning
23.	Ingestion	G	Process of releasing carbon dioxide into the air due to
			bacteria rotting dead plants and animals
24.	Lithification	Н	Process of forming hard shells from carbon dioxide
			dissolved in water
25.	Photosynthesis	Ι	Process of taking in carbon by eating
26.	Respiration	J	Process of carbon dioxide spreading out from the air
			into the water

15) Why do living things need nitrogen?

Match the following processes that are part of the nitrogen cycle.

27.	Assimilation	A	Bacteria in the soil turn nitrogen into a triple bonded molecule (n2) and release it back into the air
28.	Decomposition	В	Turning nitrogen into a useable form. Done by
			lightning and soil bacteria (NH3 ammonia)
29.	Denitrification	С	Creatures take in nitrogen by eating
30.	Excretion	D	Bacteria break down dead organisms releasing
			nitrogen from their bodies
31.	Nitrification	Е	Nitrogen soaking into the roots of a plant
32.	Fixation	F	Solid and liquid waste which is high in nitrogen are
			released from creatures
33.	Ingestion/	G	Turning nitrogen into a useable form. Done by soil
	consumption		bacteria (NH3 ammonia becomes→ NO3)

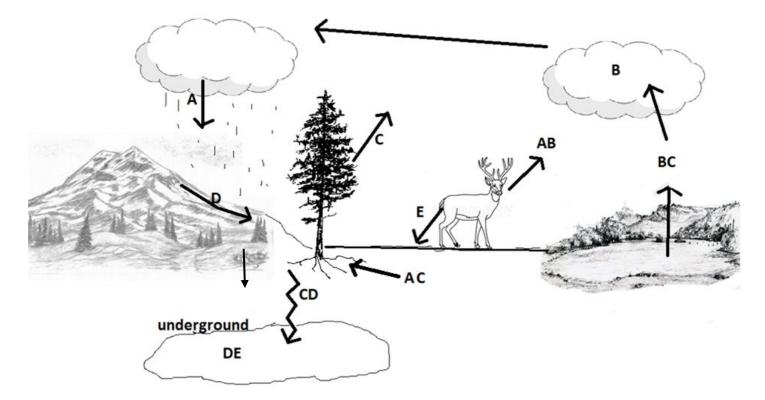
- 34.Describe why the different cycles on Earth can be harmful if too much is released into the environment. Write about the Dead zone in the Gulf of Mexico.
- 35. Describe why the different cycles on Earth can be harmful if too much is released into the environment. Write about Lake Nyos in Africa.

36. The balance of nitrogen in the atmosphere and biosphere is maintained through the

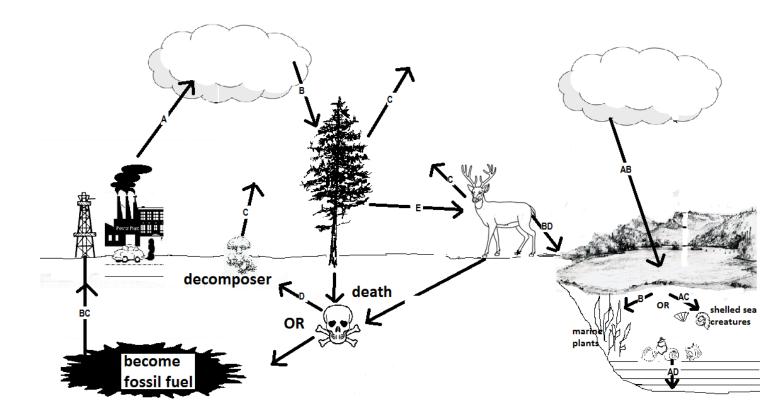
37.What is the movement of water on Earth known as? \_\_\_\_\_\_

\_\_\_\_\_

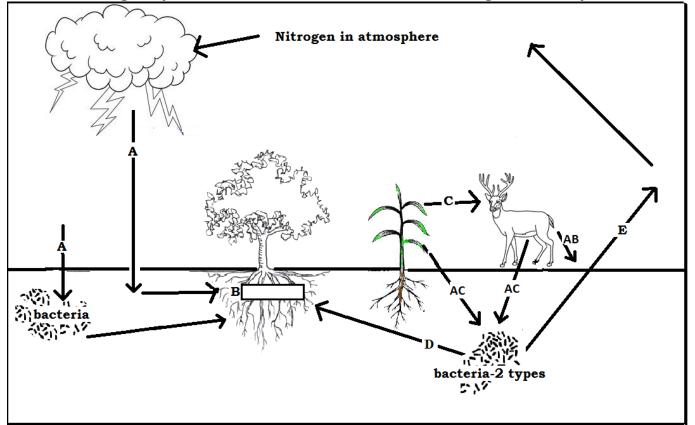
Label the water cycle below. Use the words in the matching section as your word bank



Label the carbon cycle below. Use the words in the matching section as your word bank



Label the nitrogen cycle below. Use the words in the matching section as your word bank



## SUCCESSION ch 2-2

- 38. The Hawaiian Islands were originally bare, volcanic rock. They are now covered in lush vegetation. How is this possible?
- 39. What is a pioneer species?
- 40. Name and describe the most common pioneer species (2pts)
  - 1

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- 41. What does a lichen get from the bare rock?
- 42. How is soil formed?
- 43. What type of plant follows lichens during succession?
- 44. Which comes first... ferns or grasses?
- 45. Which comes first large trees or shrubs?
- 46. What is the difference between primary and secondary succession?
- 47. When would there be more biodiversity, at the start of succession or at the end?
- 48. What is a climax species?
- 49. If a flood or a fire destroys a community, what type of succession begins?