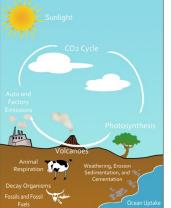
Quizlet Unit 1: Organizing Principles of Earth Science Study online at guizlet.com/ 19h0s

Study online at quizlet.com/_f9h0s

 biogeochemical cycles A pathway by which a chemical el molecule moves through both biot (biosphere) and abiotic (lithosphere) atmosphere, and hydrosphere) con Earth. biosphere All living things, whether in the ai oceans, or on and beneath the land 	nds Earth
	ic re,
4. carbon cycle The series of processes by which c compounds are interconverted in t environment, mainly involving the incorporation of carbon dioxide i tissue by photosynthesis and its re atmosphere through respiration, t dead organisms, and the burning fuels.	he nto living turn to the he decay of

5. carbon cycle diagram



6. continental plates	A portion of one block of Tectonic plates, which is not submerged in water; the solid outer shell of the earth, with an average thickness of 3035 km in continental regions forming the upper part of the lithosphere and lying immediately above the mantle
7. core	The central portion of the earth below the mantle, beginning at a depth of about 2,900 kilometers (1,800 miles) and probably consisting of iron and nickel. It is made up of a liquid outer core and a solid inner core.
8. crust	The layer of rock that forms Earth's outer surface
9. earthquakes	the shaking that results from the movement of rock beneath Earth's surface
10. Earth Systems Science	The study of the group of spheres; the lithosphere, hydrosphere, atmosphere, and biosphere, that work together to make up the Earth system.
11. geosphere	another name for the lithosphere; a rigid layer made up of the uppermost part of the mantle and the crust; the solid portion of the earth

12. **hydrosphere** the water on or surrounding the surface of the globe, including the water of the oceans and the water in the atmosphere.

13. lightning and decaying organisms



These contribute to the nitrogen cycle by ONLY releasing nitrogen.

14. lithosphere	A rigid layer made up of the uppermost part of the mantle and the crust; the solid portion of the earth
15. mantle	The layer of hot, solid material between Earth's crust and core
16. mantle convection	A cycle of heating, rising, cooling, and sinking of plasticlike rock transferring heat from the core and the mantle
17. mid-ocean ridges	Undersea mountain chains where new ocean floor is produced
18. mountain belts	These consist of several mountain ranges that run roughly parallel to each other. They typically are thousands of kilometers long and hundreds of kilometers across and parallel continental coastlines.
19. nitrogen cycle	The cycle in which nitrogen moves from the air to the soil, into living things, and back into the air.
20. oceanic plates	A section of the lithosphere that slowly moves over the asthenosphere, carrying pieces of oceanic crust
21. plate boundaries	When plates move, they can interact in several ways. There are three types; plate can move toward each other or collide (convergent), pull apart (divergent) or slide alongside one another (transform).
22. plate movements	By diverging at some boundaries and converging at other, Earth's plates are continually reshaping the landscape; seafloor spreading, rift valley, subduction, continental collision
23. plate tectonics theory	The theory that pieces of Earth's lithosphere are in constant motion, driven by convection currents in the mantle
24. subduction zones	The process by which oceanic crust sinks beneath a deep-ocean trench and back into the mantle at a convergent plate boundary

25. tectonic plates

26. trees and grazing cattle

A section of the lithosphere that slowly moves over the asthenosphere, carrying pieces of continental and oceanic crust



These contribute to the nitrogen cycle by releasing AND absorbing nitrogen.

27. upper mantle	the upper part of the mantle; also known as the asthenosphere, the soft layer of the mantle on which the lithosphere floats
28. volcanoes	Cone-shaped hills or mountains formed when hot magma, solids, and gas erupt onto Earth's surface through a vent.