

## "EARTHY" REVIEW (APES)

1. Who has the type of rock formed either by slow cooling underground or where magma reaches the surface in volcanic regions?  
I have IGNEOUS rocks. These come from deep within the Earth.
2. Who has the type of rock formed by a combination of high temperatures, high pressure, and/or chemical processes including dissolving and crystallization?  
I have METAMORPHIC rocks. These have been changed.
3. Who has the type of rock fossils are most often found in and the "law of superposition" applies quite nicely?  
I have SEDIMENTARY rocks. These layers of rock were formed by a process called lithification including squeezing & pressure.
4. Who has what we call the processes where sedimentary can become metamorphic can become igneous can become metamorphic....?  
I have the ROCK CYCLE. All the different kinds of rock can slowly become each other. Don't stand there and wait for it to happen unless you have a million years.
5. Who has the process that often occurs when crops are extensively irrigated and evaporation leaves dissolved minerals in the soil?  
I have SALINIZATION. Increased salt means decreased crops. Bummer?
6. Who has what can happen when native vegetation is lost, soil erodes, climate changes, and crop production falls by more than 10%?  
I have DESERTIFICATION. Stop it or starve!
7. Who has what animal manure, green manure, and compost are considered?  
I have ORGANIC FERTILIZERS. They improve soil texture and feed soil bacteria.
8. Who has what lowers O<sub>2</sub> content of soil & requires a great deal of energy to produce, transport, and apply ?  
I have INORGANIC FERTILIZERS. They do not add humus to the soil.
9. Who has the layer of soil that is the most productive for plant growth?  
I have TOPSOIL. It may take 500 years to form 1 inch of this!
10. Who has the type of soil with about equal mixtures of clay, sand, silt and humus?  
I have LOAM. It is rich in nutrients and holds water just right for plants.
11. Who has what you would find the O, A, B, C, bedrock horizons in?  
I have a SOIL PROFILE. Yes, it is the layers you see from top to bedrock.
12. Who has what the Earth's tilt and revolution around the sun cause?  
I have the SEASONS. We are closest to the Sun during the winter, but we are tilted away from it in the N. Hemisphere.

13. Who has what releases 150 times less CO<sub>2</sub> than our man-made activities such as driving?  
I have VOLCANOES. It would take 7 new Mt. St. Helens volcanic eruptions every day to equal human activity released CO<sub>2</sub>.
14. Who has the type of boundary where you will often find both ocean trenches and mtn ranges?  
I have CONVERGENT plate boundaries. Look out, some of those mtns are explosive!
15. Who has the type of boundary where you will often find mid-oceanic ridges and deep sea vents?  
I have DIVERGENT plate boundaries. Only place on Earth where life lives without the Sun.
16. Who has the theory that explains why fossilized plants are found in Antarctica and Africa and S America fit together like a puzzle?  
I have CONTINENTAL DRIFT. Life has evolved as continents have drifted to new climate zones and conditions changed.
17. Who has the layer of the Earth we stand on?  
I have the LITHOSPHERE. It is made of crust and solid outer mantle, but not the semisolid inner mantle or core.