Land	Beneat	h Our	Fee	t Stud	y (	Guid	е		Ú,
Voca	bulary:	Match	the	word	to	the	def	initi	on

Density Epicenter Contour Plowing Surface Wave Humus Tectonic Plates

Name: KEY U

**Focus** 

S Wave

Erosion Fault Crop Rotation Weathering Magma Aftershock P Wave Hot Spot 1. Tectonic Plates The process in which the motion of a hot material under the crustchanges the crust of the Earth. These are made of huge slabs of the lithosphere. 2. Foi center The point on the Earth's surface directly above the focus of an earthquake. The point underground where an earthquake begins. FOCUS A smaller earthquake that occurs after an original earthquake. An area where hot material rises from the mantle and heats the nt Spot lithosphere, often causing volcanic activity at the surface. How many particles are packed into a specific space or area 6. Densitu (=Mass/Volume) 5 Wave The second seismic wave to arrive at any particular location after an earthquake. 8. P Wave The fastest seismic waves that arrive first at the epicenter during an earthquake. 9. Surface Wave Seismic waves that move along Earth's surface, not through its interior. Maama Molten rock beneath the Earth's surface. 10. Fault A break or fracture in the ground that occurs when the Earth's tectonic plates move or shift. 12. Humus The decayed organic matter in soil; it makes the soil dark in color. 13. Weathering The breakdown of rock or soil into smaller pieces. 14. Frosi on 1 The process in which sediment is picked up and moved to another place. 15. Crop Rotation A soil conservation method where a farmer grows different crops each season on the same plot of land. 16. Contour Plowing A soil conservation method where a farmer plows along the contours of the land in order to reduce soil erosion. Concepts: Fill in the blank Objective 1: Layers of the Earth 17. The crust is the outer most layer of the Earth. There are two different types of crust. Continental crust is made mostly of around and oceanic crust is made mostly of basalt 18. The Crust is the least dense layer of the Earth. 19. The \_\_mantle\_\_\_\_ is made of superheated, semi-liquid rock. It has convertion currents that are responsible for the movement of the tectonic plates. 20. The only difference between the inner core and outer core is that the inner core is <u>solid</u> while the outer core is a <u>liquid</u> Both are made of iron and nick 1 21. Each layer of the earth has a different composition is why we have different layers! Objective 2: Plate Tectonics, Earthquakes and Volcanoes 22. The three different types of plate boundaries are: \_convercent and transform 23. When two pieces of continental crust come together (collide) in a \_\_convergent boundary, mountains are formed. However, if continental crust comes together with

oceanic crust, the <u>oceanic</u> crust sinks, or <u>subducts</u> , under the other causing
volcanic mountains.
24. Oceanic crust will always sink, or <u>subduct</u> , under continental crust because it is
more dense than continental crust.
25. Divergent boundaries form rift values and mid-ocean ridges. Crust is
created at this boundary.
26. At transform boundaries, plates move alongside one another in opposite
directions. Only occur along these faults; they do not create or destroy crust.
27. Crust is destroyed at a boundary.
27. Earthquakes start sciemic waves. There are three types of seismic waves:
Swaves, Pwaves, and surface waves
28. Surface waves are the most destructive type of seismic wave.
29. Primary waves can travel through liquids or gases, but secondary waves can
only travel through solids.
30. Alfred Wegener developed the theory of continental diff stating that the continents
were all once connected, but were then pushed and pulled apart by convection currents
beneath the surface of the Earth. He called the supercontinent that existed millions of years ago
before the continents moved apart <u>Panaga</u> .
31. Moving tectonic plates create earthquakes. We measure an earthquake's strength using the
scale. An earthquake's strength will increase as tension builds up
and causes the rock to move greater distances.
Objective 3: Rock Cycle
32. There are three different types of rocks: inneous , metamorphic , and
Sedimentary
33. lancous rocks are formed after a rock has been melted into magma and is
cooled again.
34. Rocks are broken down into sediment by the process of weathering. This
sediment is then carried by wind or water in a process called erosion 0
35. Once sediment has been deposited, or set down by the wind/water, it begins to settle into
layers. Over time those layers start to get packed together in the process of compaction
and then the salt on the rocks acts as glue to hold the new rock together in the final step,
<u>Cementation</u> . This forms a <u>Sedimentary</u> rock.
36. When a rock is subjected to heat and pressure, a <u>metamor phic</u> rock is formed.
37. Rocks will Al WAYS continue to go through the rock cycle; it never stops. As long
of thousand the fock cycle, it hever stops. As long
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