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Review for 4.1 Quiz

Provide a definition or explain the significance of the individual or term

Assumes that the continents have been in the same
locations since Earth First Formed.
Continental Drift Hypothesis
Wegener suggested that all the continents use to tit
together into a single supercontinent
Mid-Ocean Ridges: A mountain ridge along the ocean floor.
Trenches: A deep valley in the ocean floor.
Sea floor spreading:
Seaflow spreading occurs as magma rise the the sur
at mid-o'cean didges putting pressure on the place
at mid-ocean didges putting pressure on the plate in the process forms new
Please fill in the blank of the following questions
1. As you move away from mid-ocean ridges, the age of rocks <u>gets older</u>
2. Earth's deepest solid layer is where cose
3. Earth's only liquid layer is ortercore
4. Earth's diameter is 12700 km
5. Earth's radius is 6350 km
6. Mid-ocean ridges cover 60 00 km of the ocean floor
7. The upper mantle is broken into two pieces, the label{eq: 1.1} was please and
asthenosphere
8. In 1962, Harry Hess discovered sea floor spreading.
9. Our scientific understanding of Earth's layers below the crust is based on
indirect observation.
10. The valley at the center of the mid-ocean ridge is called the This is a crack in
the crust.
11. Molten rock from inside the Earth <u>Magwa</u>
12. The Mariana Trench is more thankm deep.
13. Alfred Wegner provided which four reasons to support his Continental Drift Hypothesis
a. Duzzle pieces
b. climate.
c. tossils
d. rock

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Review for 4.2 Quiz

Provide a definition or explain the significance of the individual or term $% \left(1\right) =\left(1\right) \left(1\right)$

Tectonic Plates: Parts of the crust & upper most mantle that
move over the Earth's Surface.
Convergent plat boundary: Two plates collide, denser crust goes below less
dense crust
Mantle convection: Current where Couler/denser material sinks & Warmer/less dense material rises
Slab pull: Pulling of a plate due to gravity & subduction
Divergent plate boundary: Two plates separate, creating new crust on the acean floor or on land.
Transform plate boundary: Two plates slide horizontally past each other Earth quakes are common
New material pushes older material aside,
Cadsing plates to move apart
Fill in the blank of the following questions
1. The <u>lithosphere</u> is composed of crust and part of the upper mantle.
2. The North American plate is made up of both Ocednic and Continental
crust.
3. Tectonic plates move slowly and float on the ditheno sphere, which flows like
toothpaste and tar.
4. The interactions between lithosphere and asthenosphere help to explain
5. Mid-ocean ridges are found at divergent plate boundaries.
6. Trenches form at Convergent plate boundaries.
7. Volcanoes form at <u>Convergent</u> plate boundaries.
8. Earthquakes occur at transform plate boundaries.
9. Subduction occurs at <u>Convergent</u> plate boundaries.
10. Sea floor spreading occurs at divergent plate boundaries.
11. Continental rifting occurs at <u>divergent</u> plate boundaries.
12. Plates move at a rate of $__$ cm to $__$ cm per year.

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13.	The movement of tectonic plates is measured using satellites lasers and
	6ther tech . One specific example is the GPS
	which uses signals from several satellites that orbit Earth.
14.	Convection Current are thought to drive tectonic plate motion.
15	mantle Convection occurs in the mantle where cooler, denser material sinks and
	warmer, less dense material rises.
16	ridge Push occurs at divergent plate boundaries, while
	occurs at convergent plate boundaries.

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Review for 4.3

The ground-shaking release of energy when a break occurs in the crust
A large break in rack
Reverse Fault: When pressured rock releases the pressure by I rock rides to overlap the other.
When rock gets pulled apart and one slips dawnwards
Strike-slip fault: When 2 rocks slip horizontally against eachother
The location where the earthquakes start
Seismic Waves: Vibrations caused by the release of enery
point of Earth's surface where earthquake starts.
Seismograph: Instruments that measure and records ground vibrations
represents the strenght of an earthquake
opening in Earth's surface where magma is released
Fill in the blank of the following questions
 When pressure is applied too quickly or is larger than the strength of the rock, the rock b reaks and the stored energy in the rocks is released in the form of an <u>CONTAGUOISE</u>. Almost <u>O</u>² of all major earthakes occur in the Circum-Pacific seismic belt.

3.	Earthquakes usually occur when rocks suddenly shift along a break in the rock, releasing built-up
	pressure. The break where the movement happens is called a <u>fourt</u> . There are
	three types: Normal fault, reverse fault, and strike-slip.
4.	Earthquakes start at a location called the <u>Focus</u> , which is the point where the
	breakage of rock first happens.
5.	As an earthquake occurs, rocks along a fault move into a new position and the ground feels like
	it is vibrating. These vibrations are called <u>SEISMIC</u> Waves.
6.	The three types of waves are primary waves
	Secondary Haves , gurface haves.
7.	Secondary (Javes can only move through solids
8.	travel along the surface of Earth and not through the interior.
9.	primare Maves can travel through both solids and liquids
10.	SUFFACE JOVES are the slowest waves
11.	Seismic waves are detected and recorded by a scientific instrument called
	seismograph.
12.	The Magnifude of an earthquake refers to how strong the earthquake is.
13.	Each number on the scale represents a 10 fold difference. For example, a 8.0 magnitude
	earth quake is 1000 times greater than a 5.0 magnitude.
14.	Anywhere that magma from the mantle reaches Earth's surface can be called a <u>VOLCANO</u> .
15.	Once magma reaches the surface, it is then called LOVO.
16.	Volcanic eruptions can produce hot gases Volconic ash and cause
	dangerous landstides.
17.	Volcanoes occur along OCCONIC — OCCONIC plate boundaries and
	continental - oceanic plate boundaries.
18.	Volcanoes occur as a result of SUNCHON, where the more dense plate goes
	below the less dense plate.
19.	At oceanic-oceanic plate boundaries, Volcanic ISland arcs will be
	produced. The Alaska are a good example.
20.	At oceanic-continental convergent plate boundaries form large continental
	volcands. The Coast Mountain Range includes a series of
	dormant volcanoes.
21.	<u>+lot</u> <u>Spots</u> are defined as unusually hot regions of Earth's mantle where
	magrņa rises to the surface by breaking through weak parts of the lithosphere.
22.	The Hawaiian Island are thought to have formed from a hot spot under
	the ocean.
23.	When two <u>CONTINENTAL</u> plate collide, massive mountain ranges are
	formed. An example would be the Himalayan Hountains. Range. This mountain
	range was created when the <u>Eurosia</u> plate and <u>Indian</u> plate collided.

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