

WARM - UP

Tuesday, November 19, 2019

Page: 346, 1. Most active volcanoes occur in zones near both _____ and _____ boundaries of tectonic plates.

Convergent and divergent

Page: 346, 2. A major zone of earthquakes and volcanoes encircles the Pacific ocean called: _____

Pacific ring of fire

Page: 347, 3. What is a subduction zone?

Where one tectonic plate moves under another

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- Page: 319, 1. What prevents rocks along a fault under stress from sliding past each other?

friction

- Page: 320, 2. The focus points of most earthquakes occur at depths between _____ and _____ in the crust.

70km and 650 km

Page: 321, 3. A P-wave, is also called a _____ wave or _____ wave.

Primary, compression

- Log on to computer
- - go to ***Parkside web site***
- - click on button - ***links on top*** of Parkside site
- - click on ***Mr. Goodyear Envirometal(earth) science*** web site
- - click on ***info button*** on top of site
- - click on ***Blue McDougal text***
- - log on with ***user name given*** – ***password is 12345***
- - go to ***top drop menu*** and click
- ***Chapter 10 Plate Tectonics***
- - click on ***eActivities*** and start working on each Section
- When finished go to ***Chapter 12 Earthquakes***

COOL DOWN

- 1. What type of force is acting on/producing the San Andres fault?

shear

- 2. What force is helping produce the Himalayan and Appalachian Mountains?

compression

COOL DOWN

- 1. What type of seismic wave causes the most damage?

L-wave or surface wave

- 2. Which of the 3 seismic waves do not pass through the liquid outer core of the Earth?

S-wave or secondary wave

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- Page: 321, 1. What other things can produce seismic wave other than earthquakes? Name two: _____

Meteorites, landslides, explosions, movement of heavy equipment

Page: 322, 2. In 1909 Andrija Mohorovicic discovered the speed of seismic waves speed up at depths of _____.

30 km

- Page: 322, 3. Area on Earth where no Earthquake waves are detected from a particular Earthquake is called the _____

Shadow zone

COOL DOWN

1. How many seismograph readings are need to locate the epicenter of and Earthquake?

3

2. A neutral boundary in the USA where shear force is taking place is called the _____.

San Andreas Fault line

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- P. 304 _____ mountains form when tectonic movements squeeze rock layers together into accordion-like compression.
 - **Folded**
- P. 305 The Sierra Nevada range of California consists of many _____ - _____ mountains.
 - **Fault Block**
- P. 305 A circular structure made of rock layers that slope gently away from a central point is called a _____ mountain.
 - **Dome**

OBJECTIVES

- Name the 5 major land areas of the USA
- Define: plain, mountain, plateaus, basin, maritime

4 MAJOR LAND FORMS

1. Plains

2. Mountains

3. Plateaus

4. Basin



PLAINS

- **Definition:** Large area of flat land at low elevation
 - Formed by sediments deposited in horizontal layers near sea level or in low lying areas
- **Examples:** Great plains, coastal plains



MOUNTAINS

- **Definition:** a natural elevation of earth's surface having considerable mass, generally steep sides and a height of greater than **600 meters** than surrounding region
 - **3 main types:**
 1. Folded
 2. Volcanic
 3. Fault-block



FOLDED MOUNTAINS

- Made from compressed sedimentary rock layers
- **Examples:** Appalachian, Himalayas



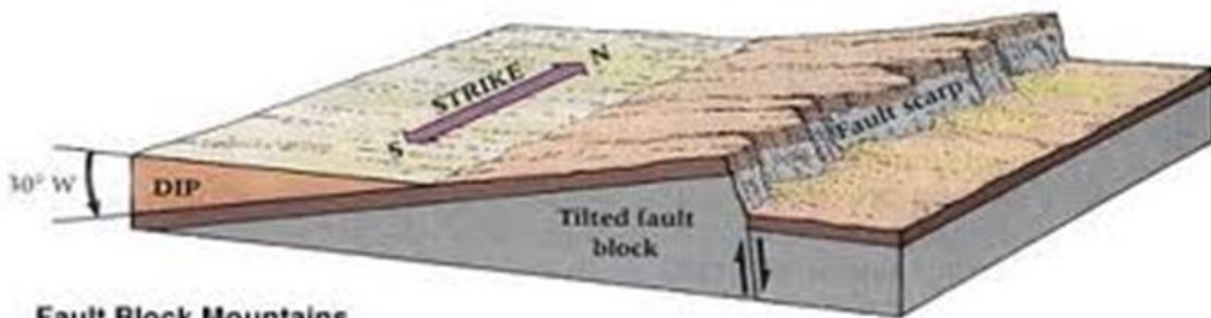
VOLCANIC MOUNTAINS

- Made from hardened lava or magma
- **Examples:** Mt. Saint Helens, Mauna Loa



FAULT BLOCK MOUNTAINS

- Made from a series of normal faults (rock layers **tilted** not folded)
- **Examples:** Sierra Nevadas



PLATEAUS

- **Definition:** large area of flat land at high elevation (usually next to mountain ranges)
 - streams and rivers can cut deep valleys and gorges into plateau rocks (ex: Grand Canyon)
- **Example:** Colorado Plateau



BASIN

- **Definition:** a broad track of land which the rock strata are tilted toward a common center.
 - A large bowl-shaped depression in the surface of the land
- **Example:** Great basin Nevada



