

MOUNTAINS NOTES

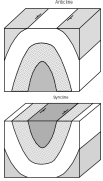
Name: _____

1. **What is a Mountain?** A large mass of rock or landform that rises a great distance above its base (about _____ meters)
2. **Where** do mountains form? Generally, along _____ plate boundaries (Collision)
3. **How** do mountains form? Mountains form from _____ that have been permanently _____ under _____.

Tallest Mountain in the U.S.? → Mt. McKinley, Alaska with an elevation of _____ feet or 6194 meters

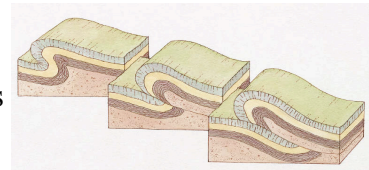
The 3 Types of mountains:

1) **Folded Mountains** (CONVERGENT BOUNDARIES) Ex: _____ mountains
 Formed by the _____ of rock layers during plate _____.



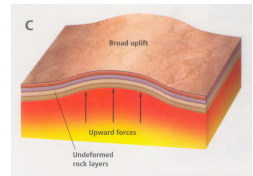
_____ : An **upward** fold in the rocks

_____ : A **downward** fold in the rocks



2) **Dome Mountain** Ex.: _____ mountains

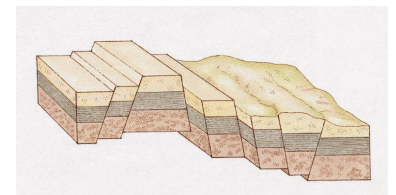
A circular folded mountain, Formed by _____.



3) **Fault-Block Mountains** Ex.: _____ mountains

Movement can occur in several directions in Fault-Block Mountains

Formed when normal _____ a block of rock



Label the different Types of Mountains



Upwarped mountains



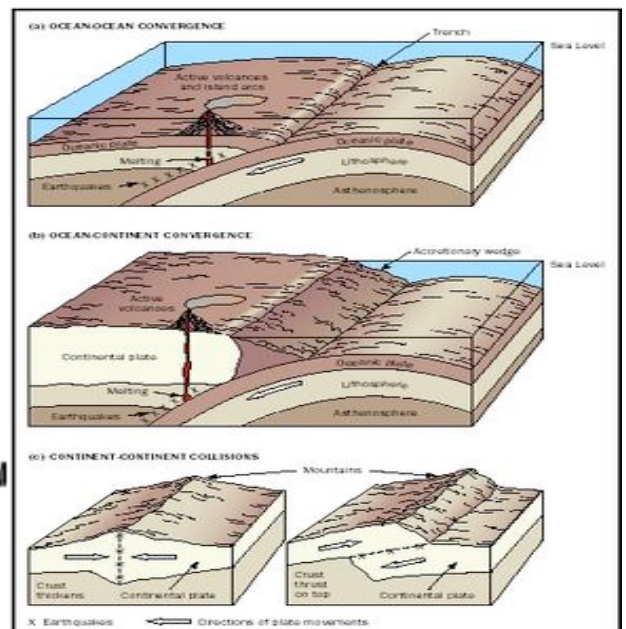
Volcanic mountains



Fault-block mountains



Folded (complex) mountains



Faults are classified by how the rock moves on either side of the fault plane:

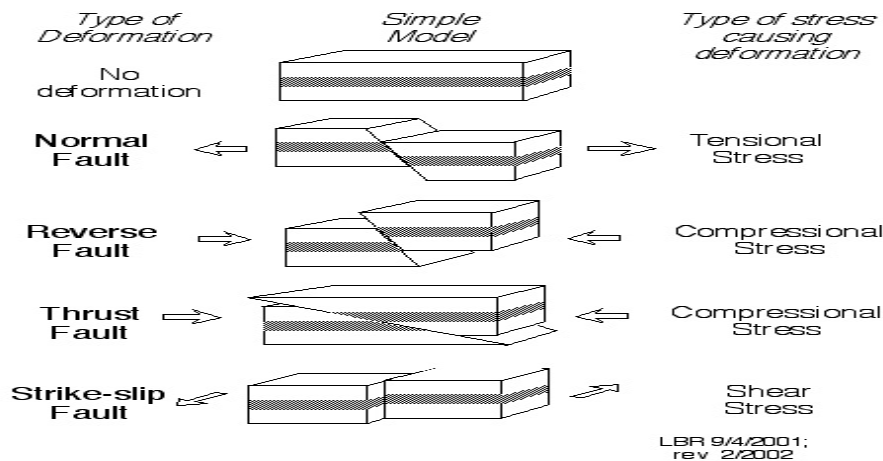
→ A _____ is formed when occurs when the hanging wall moves up (Convergent Boundaries push rocks up and over)

→ A _____ occurs when the hanging wall moves down (Divergent Boundaries release tension and rocks slide down)

→ A **thrust fault** is a reverse fault in which the fault plane dips 45 degrees or less from the horizontal.

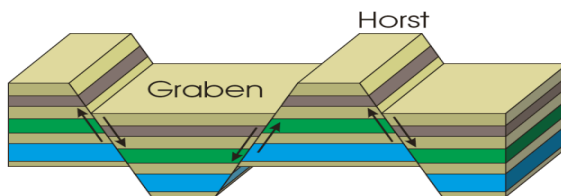
→ A _____ Fault the type of fault occurs when rock on opposite sides of a fault plane move **horizontally** past each other? **(Like in an Earthquake!)**

Simple faults and why they form



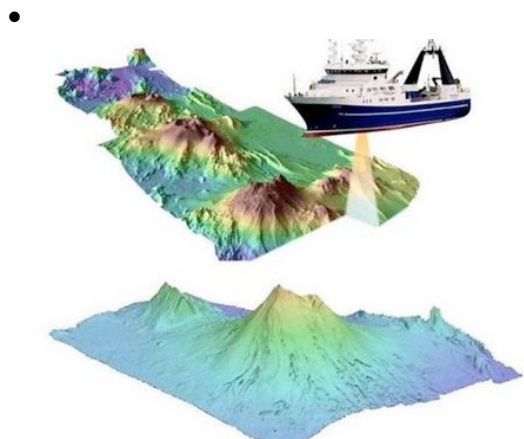
How do Horsts and Grabens differ?

_____ are large blocks of crust that have been _____ between faults
 _____ are large blocks of crust that have _____ between faults



Underwater mountains are called **seamounts** until they reach the water's surface and become **islands**.

•Ships use _____ to make 3-D images of underwater features like mountains.



SOL Review:
 What do **circles** on a **topographic map** indicate?
