



Definition:

- A large mass of rock that rises a great distance above its base.
- Most of the world's mts. Occur in long belts that tend to follow converging plate boundaries, like along *continental margins* – the boundary between continental crust & oceanic crust.



How Mountains Form:

- Stress: Applied at converging plate boundaries causing rocks to become fractured.
- There are 3 types of stress:
 - 1) Compression
 2) Tension
 3) Shear



How Mountains Form:

- Folds: Crumpled rock layers that occur during plate collisions.
- There are 2 types of folds:
 - 1) Anticline
 - 2) Syncline



How Mountains Form:

- Faults: Boundary between 2 plates.
- There are 4 types of Faults:
 - 1) Normal
 - 2) Reverse
 - 3) Thrust
 - 4) Strike-Slip



Normal Faults

 Occur when the hanging wall moves down with respect to the footwall (tension is pulling the crust apart).

Reverse Faults

 Occur when the hanging wall moves up with respect to the footwall (compression pushes crust together)

Thrust Faults

• Occur when a reverse fault plane is 45 degrees or less from horizontal.



- Strike-Slip Faults

 Occur when the rocks on either side of a fault move in opposite directions past each other.







