Daily Routine

- Sit in your appropriate seat quietly
- Have all necessary materials out
- All back packs on the floor
- All cell phones on silent and away in backpacks
- All IPods off and headphones out of your ears
- Hats off
- No food or drink except for water

Earth Science Announcements

- Volcano Project: Due 10/6
- Midterm 10/9 or 10/10

Introduction to Earthquakes

How does earthquakes affect our lives?

I will be able to...

- Define what an earthquake is
- Interpret a graph referring to elastic and plastic deformation
- Diagram and explain what the three types of faults are and the anatomy of a fault

Earthquakes, earthquakes, earthquakes



Faults

- Any fracture or system of fractures along which the earth moves
- Three types of faults:
 Normal
 - Reverse
 - Strike Slip



Anatomy of a Fault: Draw and label this!



- Footwall
- Hanging Wall
- Fault Plane
- Fault Scarp
- Fault Line

Fault Types

Normal = Tension

Reverse = Compression



Where does an earthquake occur?



What is Seismology?

- The scientific study of earthquakes and of the internal structure of the Earth.
- Uses a seismograph to monitor earthquakes
- It includes:
 - study of the origin
 - geographic distribution
 - Effects of Events
 - Possible prediction of earthquakes.