Structural Geology
Elastic Rebound Theory: Stress and Strain:
The Elastic Limit: Stress>Strain
Brittle and Ductile Behavior in Rocks:
When does Brittle behavior occur?
When does ductile occur?
Folding and Faulting
Stress: 1) Compressive
2) Extensional or Tensional
3) Shear
The "attitude" of rocks:
Strike
Dip
These parameters are used on <b>geologic maps</b> , special maps that show the types of rock exposed in a geographical area.
They are also used in the construction of <b>geologic cross-sections</b> , which represent a vertical slice through a portion of the Earth.
Folding occurs when the rock behaves in a ductile fashion (typically far below the surface).

1) Anticlines:

2) Synclines:
3) Excessive Stress Folds: a) Asymmetrical
b) Overturned
c) Recumbent
d) Hairpin or Isoclinal
Other Fun Terminology: Plunge of the Fold:
Pitch of the Fold:
Other Special Structural Folds: Domes and Basins 1) Dome
2) Basin