Structural Geology is important because the structures often form barriers to petroleum flow and ‘trap’ the petroleum in one location.
Types of Folds

Anticlinal Fold: These types of folds are upward arches of rock formed under compressional stress.

In an anticline, the oldest rocks will be exposed via erosion in the middle.

Synclinal Fold: These types of folds are downward arches of rock formed under compressional stress.
Effects of Stress/Strain on Rocks

Brittle Effects: Faulting, jointing, cleavage

Ductile Behavior: Folding