Geology 12

Unit 0 – Introduction

Day 7 - Rock Deformation: Structural Geology

Name	:	 	
Date:		 	

Block: _____

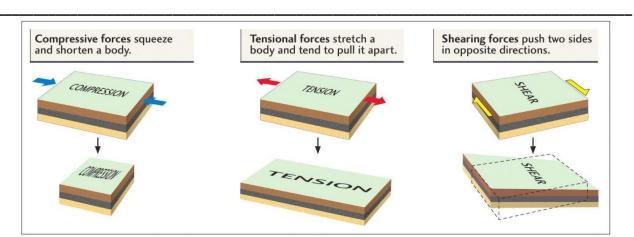
3 Types of Stress:

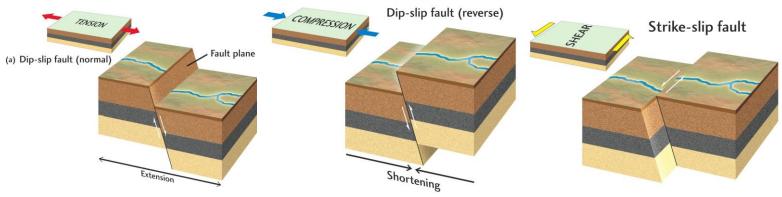
Tension: a stretching stress. Rocks have very little strength under tensional stress and

break apart easily

Compression: a squeezing stress. Rocks are relatively strong under compression

Shear: stress operates in opposite directions across the body





Strain:

Deformation or change of shape a rock bodyexperiences when under differential stress

3 Types of Strain:

Elastic Strain: _recoverable strain

When stress is removed, object regains original shape. (Ex: rubber band).

Plastic strain: permanent strain. When stress exceeds the strength of the rock the rock will bend or fold

when stress is removed, object remains deformed by bending

Brittle Strain: permanent strain. When stress exceeds the strength of the rock the rock will break or fracture (Ex: Chalk)

Rock Deformation Terminology:



