

Name _____

PRELAB EXERCISE on GEOLOGIC STRUCTURES

1. Read the chapter.

Become familiar with strike and dip, types of folds, types of faults and their map symbols (Fig. 10.1, 10.4 and 10.5)

Examine block diagrams of geologic structures in Fig. 10.7 and 10.8.

TERMS you should learn:

Cross section - a cutaway view from the side

Map View - outcrop pattern or view from the top

Attitude of bedding or fault plane: **DIP** = tilt of beds measured from horizontal
Dip direction = direction of tilt.

STRIKE = trend of beds relative to North.

Geologic Structures:

Folds: anticlines, synclines, fold axis or hinge, plunging folds, domes, basins

Faults: normal, reverse, thrust, strike slip

igneous intrusions: Plutons, dikes, sills

2. Cut out paperboard **model blocks 1, 2, 3, 4, 5, and 6.** (They are located in the Appendix of the lab book).

3. Identify (label) the structures in each block.