

## Structural Geology Lab Worksheet

### Questions 1-4:

Complete the table below using the block diagrams for Tilted Sedimentary Rocks (block diagrams 1-4). Answer using compass directions for strike and dip direction.

Block Diagram Number	Strike of Layers	Dip Direction of Layers
1		
2		
3		
4		

### Questions 5-8:

For block diagrams 5-8 in the Folded Sedimentary Rock expander, determine the strike and dip of the fault's plane.

Block Diagram Number	Strike of Layers	Dip Direction of Layers
5		
6		
7		
8		

### Questions 9-12:

For block diagrams 9-12 in the Folded Sedimentary Rock expander, determine where the hanging wall and footwall are located (e.g north, south, east, or west of the block).

Block Diagram Number	Foot Wall	Hanging Wall
9		
10		
11		
12		

### Questions 13-14:

Determine the type of fault (normal or reverse) that is present in block diagram 13 and 14.

13. Block diagram 13 shows a \_\_\_\_\_ fault.

14. Block diagram 14 shows a \_\_\_\_\_ fault.

**Questions 15-16:** Determine the type of fault (normal or reverse) for block diagrams 15 and 16

15. Block diagram 15 shows a \_\_\_\_\_ fault.

16. Block diagram 16 shows a \_\_\_\_\_ fault.

**Questions 17-20:** Use block diagram 17 to answer the following questions.

17. Block diagram 17 shows a plunging \_\_\_\_\_ (type of fold).

18. Block diagram 17 is plunging toward the \_\_\_\_\_ (compass direction).

19. Using block diagram 17, judging from the way that the fault crosses the fold, the fault must have occurred \_\_\_\_\_ (before or after) the fold formed.

20. For block diagram 17, the fault is a \_\_\_\_\_ fault (type of fault).